BADGER STATE Smoke Signals

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Single Copy: $1

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Vol. 19 No. 6 - 222nd Consecutive Monthly Issue - Baraboo, Wisconsin - June 1988

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And the Winner is....



Ron Tlachac, W9UW, Wisconsin Rapids (left), winner of the "Unusual Trivia Quiz," is presented with his prize by quiz author Gene Santoski, K9UTQ, also of Wisconsin Rapids. The quiz, sponsored by the Wisconsin Nets Ass'n Ltd. and Badger State Smoke Signals, ran from February 1987 thru January 1988. Ron had 44 of 120 possible correct answers. He responded to 5 of the 12 quizzes published. **Photo via Gene, K9UTQ**

ARRL Responds to UPS 87-14 Filing

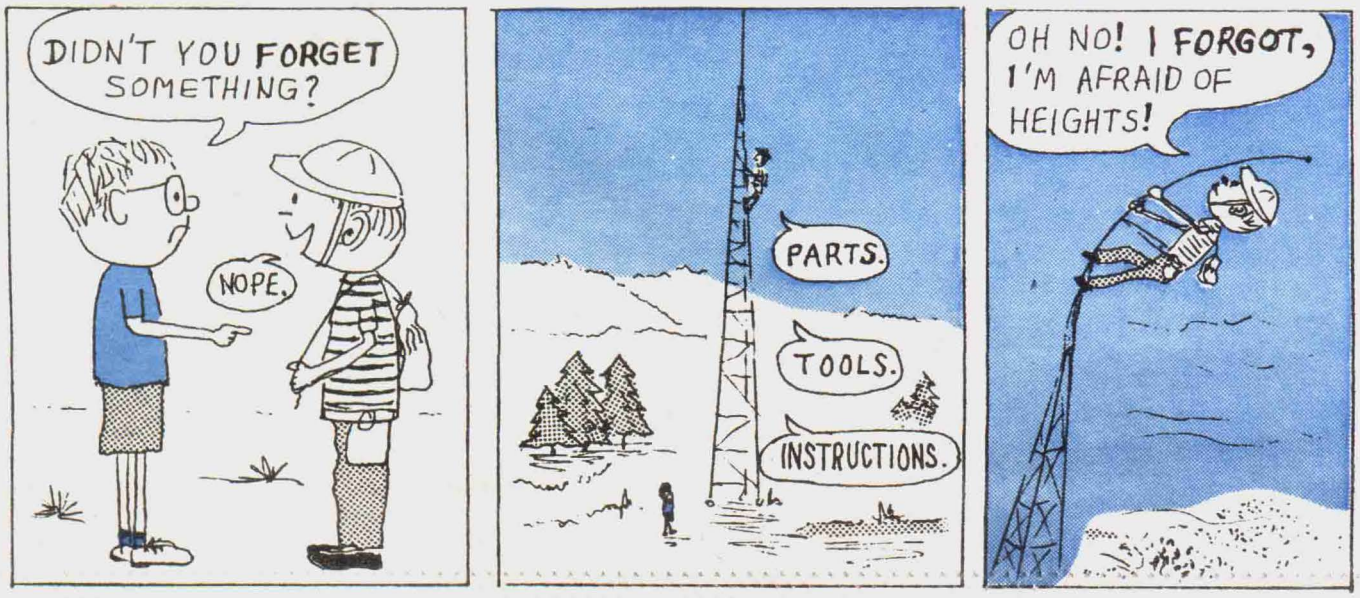
"There is nothing in the UPS comments which establishes anything unique about 220-222 MHz as a place to implement what the UPS describes as 'an advanced private land mobile telecommunications data network.'" This is one of the key statements in the League's reply comments to the late-filed comments of the United Parcel Service in Docket 87-14, the FCC proposal to remove the bottom 2 MHz of the 220 MHz band from the amateur service.

In fact, UPS says in its comments that this network will take place initially in the 150 MHz band, spaced between wideband FM channels. The only reference to any need for the 220-222 MHz band is that UPS "expects that it ultimately will need to use the channels in the 220-222 MHz band at issue in this proceeding in order to complete implementation of its system."

Our reply comments continue to emphasize that the 220-222 MHz band is critical for the development of packet links and also note that the number of repeater listings in the **ARRL Repeater Directory** has increased from 1173 to 1421, an increase of 18% in one year, showing greatly increased pressure on the 220-222 MHz band segment. "The doubling of such stations in the band in only one year under the threat of complete disenfranchisement attests to the ur-

(Please turn to page 10)

ELMER by Rich Regent, K9GDF



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BADGER STATE
Smoke Signals
For Radio Amateurs . By Radio Amateurs

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1 year	(12 issues)	$8.50
2 years	(24 issues)	$16.00
3 years	(36 issues)	$23.00

ADDRESS CHANGES AND CORRECTIONS should be sent to Kenneth A. Ebneter, address above.

EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

DISPLAY ADS OR INQUIRIES REGARDING DISPLAY ADS should be directed to Harry Westlund, address above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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EDITORIAL DISCLAIMER

The opinions expressed in editorials, guest editorials, columns, articles, and letters are the opinions of the authors only, and do not, unless otherwise stated, express or imply agreement or endorsement by Badger State Smoke Signals, or any other organization.

Swapfests and other Social Events

SUNDAY, JUNE 12, 1988. 31st Annual Hamfest of the Six Meter Club of Chicago, at Santa Fe Park, 91st & Wolf Road, Willow Springs, IL. Talk in on 146.52 and 37/97.

SUNDAY, JUNE 19, 1988. The 11th annual Central Wisconsin Radio Amateurs Ltd. Swapfest and Family Picnic, will be held at Bukolt Park, on the Wisconsin River in Stevens Point, WI. FREE admission. Swaptables an Tailgate space: $3.00. Amateur Radio Exams start at 9:00 a.m. (See details and map in ad this issue)

FIELD DAY - JUNE 25 & 26

SATURDAY, JULY 9, 1988. Swapfest "88". American Legion Post 434, Oak Creek, WI. Sponsored by the South Milwaukee ARC. Amateur Radio Examinations given (see test point). Tickets: $3.00. Watch BSSS for ad with more details and map from this Badger State Booster.

SUNDAY, JULY 10, 1988. Du Page ARC Hamfest, American Legion Grounds, 4000 Saratoga, Downers Grove, IL. DuPage ARC, P.O. Box 71, Clarendon Hills, IL 60514.

JULY 23 & 24, 1988. ACLR/DEVRY Hamfest, at DeVry Institute, 3300 N. Campbell, Chicago, IL. Contact: A.C.L.R. P.O. Box 348257, Chicago, IL 60634.

EAA SHOW JULY 29 THRU AUGUST 5. Oshkosh, WI. Be sre to visit the Ham Shack.

SATURDAY, AUGUST 13, 1988. The 9th Annual Rhinelander Swapfest will be held at the Gigantic Rhinelader Ice Arena, in Rhinelander, WI. Set up begins at 8 a.m. with sales starting at 9 a.m. Free Parking. Food and beverages will be available. License exams given in the morning only. An auction will be held at 1 p.m. Reserve tables ($5.00) available until July 30, or bring your own tables. Dealer Welcome. Contact: LeonardBauman, K9RMN, 1312 Dorothy St., Rhinelander WI 54501. Telephone (608) 369-3296. See their ad in July BSSS.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebneter, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. Please contact K9ZZ or K9EN.

Club Meetings

BADGER AMATEUR RADIO SOCIETY
(W9YT - UNIVERSITY OF WISCONSIN - MADISON)
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.
(STEVENS POINT)
Second Wednesday.

EAU CLAIRE AMATEUR RADIO CLUB
2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)
First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB
Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 735-6294. Winter Banquet, January 23, 1988. Contact KA9MPP.

GREEN BAY MIKE AND KEY CLUB
Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

GREEN FOX AMATEUR RADIO CLUB
Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwys. K and N.

KETTLE MORAINE RADIO AMATEURS
Second Friday.

LAKESHORE RPTR. ASSN.
4th Tuesday, Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MANITOWOC COUNTY RADIO AMATEURS
First Wednesday - 7:00 p.m. - City Hall, 817 Franklin St., Manitowoc.
Second Wednesday - Red Cross Building, 1816 Washington St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB
Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB
Fourth Thursday - Wauwatosa Savings and Loan, 7500 W. State St. (November on the third Thursday. No meetings in July, August and December.) Meetings begin at 7:00 pm.

OZAUKEE RADIO CLUB
Second Wednesday - 7:30 p.m. - Saukville Community Center.

QCWA - WISCONSIN CHAPTER #55
June 4, 1988. Port Washington Fish Shanty, social hour begins 11 a.m., guest and visitors are welcome. For reservations, contact Richard Regent, K9GDF, 5003 S. 26th St., Milwakee, WI 53221. (414) 282-0312

QCWA - SOUTHEAST WISCONSIN CHAPTER #162
Meets third Monday monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids, Drive, Racine.

RACINE MEGACYCLE CLUB
Second Tuesday, 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RIVERLAND AMATEUR RADIO CLUB
First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB
First Tuesday - 8:00 p.m. - Dodge County Sheriff's Dep't, 141 N. Main, Juneau WI.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB
Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB
First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TRI-COUNTY AMATEUR RADIO CLUB
Meetings are held at 7:00 p.m., the second Sunday of each month at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

WEST ALLIS RADIO AMATEURS CLUB
Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)
First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)
Days rotate: 1988 meeting dates: Tue., Jun. 14, Wed., Jul. 13, Thu., Aug 11, Mon., Sep. 19, Tue., Oct. 11, Wed., Nov. 16, Thu., Dec. 15. Monday meetings in room 28D of the Baraboo Civic Center; all others in room 25. Meetings start 7:30 p.m.

The TEST POINT

The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

June 16, 1988	Onalaska, WI
June 18, 1988	Menomonie, WI
June 19,1988	Stevens Point, WI
July 8, 1988	Eau Claire, WI
July 9, 1988	South Milwaukee, WI (BE)
July 9, 1988	Eau Claire, WI
August 13, 1988	Rhinelander, WI
September 24, 1988	Wisconsin Rapids, WI
October 15, 1988	Eau Claire, WI
November 12, 1988	Menomonie, WI
Novermber 12,1988	Rhinelander, WI
December 3, 1988	Stevens Point, WI
March 18, 1989	Menomonie, WI
June 17, 1989	Menomonie, WI
November 11, 1989	Menomonie, WI
Monthly, First Sat.	Racine, WI
Monthly, Third Sat.	Loves Park, IL

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walkins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 22¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for $4.55 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable idntification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE METRO AREA TEST TEAM - MRAC/VEC (MRAC)
May 21, 1988

Tests are given at 9:00 AM in room 256, Wauwatosa East High School at 74th and Milwaukee Ave. Use the east (74th St.) entrance.

Bring your original license and 3 good photocopies, a pen, and $4.55 for the exam fee. Walkins accommodated if time permits.

Register in advance on a Postal Service 14 cent postcard; print the grade of license you are applying for, your name, address, and telephone number. Send to: The Milwaukee Radio Amateurs' Club, Inc., N50 W16328 Pin Oak Court, Menomonee Falls WI 53051.

BADGER EXAMINERS (BE) - MILWAUKEE
July 9 (South Milwaukee Swapfest)

Unless otherwise noted, examinations are administered from 1 to 4 p.m. at St. Nicholas Parish, 5353 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Bring your original license, a good photocopy of it, and a second form of ID. Walkins are welcome. Technician license holders must bring proof of testing prior to March 21, 1987 to upgrade to General with code test only. Advance registration: send post card with your name, test or tests you wish to take, date you wish to be tested, your call sign, address and phone number to Badger Examiners, Mickey Dolgin, KB9G, 507 E. Spooner Rd., Fox Point WI 53217 (414) 351-5311.

ONALASKA, WI
Thursday, June 16, 1988

Both exams will be at the Onalaska Community Center, 515 Quincy Street, Onalaska, WI 54601. Reservation recommended. Contact Rick Williams, KV9U, 524 Troy Street, Onalaska, WI 54650, phone (608) 783-8028. Walk-ins accepted but no guarantee of exam availability.

STEVENS POINT, Wisconsin
June 19 and December 3, 1988

By Central Wisconsin Radio Amateurs, Ltd. Contact Joseph W. Larson, N9JW, 644 Portage St., Stevens Point, WI 54481. (715) 344-1182.

WISCONSIN RAPIDS, WI - ARRL/VEC
September 24, 1988

Contact Eugene R. Santoski, K9UTQ, 1220 18th Street South, Wisconsin Rapids, WI 54494. (715) 423-6368.

EAU CLAIRE, WI - W5YI/VEC

9:00 A.M. to Noon, except July 8, 1988, 6:00 P.M. to 9:00 P.M. Exams are given at the University of Wisconsin Facilities Management Building in Eau Claire, except that the July exams are given in conjunction with the Eau Claire Amateur Radio Hamfest. There is no pre-registration requirement. Contact: Carl Searing, W9NW, 1129 McKinley Road, Eau Claire, WI 54703. (715) 834-1303.

MENOMONIE, WI

Credit Union Office Building, Conference Room, lower level, 444 S. Broadway, Menomonie, WI. Contact: Dr. Thomas W. King, KD9TT, c/o office, 444 S. Broadway, Suite 1, Menomonie, WI 54751. (715) 235-4747 (O), 235-5757 (H).

RHINELANDER, WISCONSIN
August 13, 1988 (Rhinelander Swapfest)
November 12, 1988.

All except August will be held at Nicolet College Science Center in the Fireside Room starting at 9:00 a.m. All sessions held at Nicolet College will be by appointment only. Registration required thirty days in advance of testing session, with check payable to "DeVry VEC" for $4.55. Only Technician class and above will be given at the testing sessions.

August 13th testing session will be conducted at the Rhinelander Swapfest, corner of Chippewa Dr. and Co. Hwy. CC in the Rhinelander Ice Association Ice Arena. Walk-ins will be accepted at the swapfest. Registration on the hour from 9:00 am.m till 12:00 noon.

Novice tests will be given by appointment at any time except at regular scheduled testing sessions.

Contact: Leonard Bauman St., K9RMN, 1312 Dorothy St., Rhinelander, WI 54501. (715) 369-3296.

RACINE, WISCONSIN - ARRL/VEC

First Saturday of each month except during summer and the Christmas holidays.

Exams are given at the Red Cross Building, 4521 Taylor Ave., Racine, WI. Walkins are permitted.

Send pre-registration to: William R. Firchol, Jr., N9DMP, 1912 27th Street, Kenosha WI 53140.

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves(Park, IL. Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109, (815) 874-6867

Minnesota Tests. Contact:

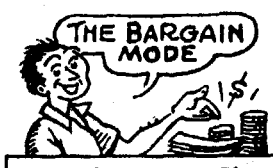
Amateur Radio Association of Bloomington, Art Putt, 881-7187.

St. Paul Radio Club, Jay Bellows, 222-7253.

Rochester, MN. RARC VE team (ARRL/VEC). Contact Bob, KØSIR, evenings at (507) 282-8057.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examineer Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ at the address shown on page 2.



SSB
SELL SWAP BUY
OUR WANT ADS GET RESULTS

FOR SALE: Drake TR4 transceiver, MS4 speaker, AC4 power supply, Sherwood CW filter. $275.00. Glen Schroeder, KA9YIV.

FOR SALE: Kenwood TS-830S package with 230-digital VFO and SP-230 speaker - will not split - very clean. $700.00 or B/O. Dick Lust, K9APW, Rte. 7, Verona WI 53593. (608) 833-8335.

FOR SALE: MFJ 1270-B HF/VHF TNC in excellent condition - $85 firm. Drake-75 CW Electronic Keyer in mint condition - $50 firm. Interested persons can contact Kurt Silber KB9MQ at 414-748-5911.

Msg # 1946 Type:B Stat:N
To: ALL From: W9WI Date: 16-May/0354
Subject: BBS to vanish
From: W9WI@W9WI

FYI this BBS is going to go off the air for a week or two around the end of the month: I'm moving. Can't tell you exactly where yet (I don't know either!) or exactly when. (depends on where!) I'm going to try to arrange for Madison mail to be temporarily forwarded to other BBSs in the general area. More details will follow as I have them..

73 Doug

Wisconsin Nets Association Ltd.

WISCONSIN NETS

NET	WNA	FREQ	UTC	CDT	MANAGER
BWN	YES	3984	1100Z	0600	WD9IID
BEN	YES	3985	1700Z	1200	KA9RII
WSBN	YES	3985	2230Z	1730	K9EP
WNN	YES	3723	2300Z	1800	KA9TTM
WSSN	YES	3645	2330Z	1830	N9BDL
WIN-E	YES	3662	0000Z	1900	WB9ICH
WIN-L	YES	3662	0300Z	2200	W9NGP
NWTN	YES	34/94	2330Z	1830	NS9Q
GR.BAY	NO	72/12	0145Z	2045	WB9NRK
			THU.	WED.	
RACES	NO	3993.5	1715Z	1215	WC9AAG
		USB TUE. & THUR.			
RACES	NO	3993.5	1300Z	0800	WA9OAY
		LSB SUN.			

Section Manager's notes

Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Congratulations to Fox Cities ARC for renewing as a Special Service Club.

Our new Section Emergency Coordinator, W9ZAG, was on TV-6 Milwaukee program "Gathering Storms" explaining how Hams spot and report severe weather; WB9SMM mobile voice was heard as a weather reporting operator.

Badger Emergency Net trying 7,283 KHz until about September.

Priest from Poland, who recently moved to Wisconsin and was looking for Ham equipment, is happy to get licensed with call KB9AID and find rig.

AG9V, our State Government Liaison, has moved out of Wisconsin; anyone interested in handling the SGL appointment duties?

K9FHI, President of 35-member Juneau Snow Marauders, has light duty during the summer.

New Official Observer AC9J.

July 1st is the start of my fifth year as Section Manager, thanks for all of your help and support.

Happy Fourth of July.

July 9th, South Milwaukee ARC Swapfest, 7 a.m. at American Legion Post, Shepard Avenue north of Ryan Road, Oak Creek, walk-in license exams.

Eau Claire Hamfest also July 9th.

Don't forget the Milwaukee Circus Parade this year with Amateur Radio Communicators, July 17th.

Sorry to report Silent Keys K9JGT and KA9AFB.

As a reminder, your Field Day entry must be postmarked by July 30th.

N9AW with Garage Door Opener Radio Frequency Interference (GDO RFI) qualifies for 20-meter Worked All Garage Doors in his neighborhood.

9RN DAYS APRIL 256 MESSAGES 60 SESSIONS WISCONSIN 97 PERCENT KA9RII KA9VII W9ODV WB9ICH W9CBE W9IEM N9GJI - NN9M.

9RN REPORT APRIL 340 MESSAGES 60 SESSIONS WISCONSIN 90 PERCENT W9CBE W9CXY W9DND WB9ICH W9KLN K9UTQ W9YCV - W9JUJ.

CAND REPORT FOR APRIL 88 X 497 MESSAGES IN 30 SESSIONS X 9RN REPRESENTED 100 PER CENT X WISCONSIN STATIONS KA9RII W9ODV KA9VII W9IEM X 73 - WB5YDD.

Universal Traffic Queries

NO. 9 OF A SERIES

GENE SANTOSKI K9UTQ
SECTION TRAFFIC MANAGER
WISCONSIN SECTION - ARRL

This month, we will continue our discussion of message parts. We have already discussed message number and precedence in the previous issue.

The next item in the preamble after number and precedence is the HX PROSIGNS. These are handy little tools used mostly by the originating station as instructions on how the message is to be handled. These are OPTIONAL in the preamble. However, they are not to be "dropped" in the relaying process. It should be noted that, to the extent that all amateur message handling is voluntary, to that extent compliance with an HX is also voluntary. However, we amateurs shoulder a certain amount of responsibility in our message handling activities, so why stop at an HX?

Complying with an HX is a courtesy requested of you by the originating station. By the way, HX stands for "handling extra". As an originating station, if you want the designated operator or operators to take the responsibility to perform it, be sure you are acting responsibly in asking him/her to do so.

Some of the more commonly used HX prosigns are:

HXA (followed by number). Collect landline delivery authorized by addressee within _____miles.

HXB (followed by number). Cancel message if not delivered within_____hours of filing time; service originating station.

HXC - Report date and time of delivery (TOD) to originating station.

HXE - Delivering station get reply from addressee, originate message back.

HXG - Delivery by mail or landline toll call not required.

A full listing of HX prosigns are shown on CD-3, or in the ARRL Operating Manual, ARRL Logbook or operating aid 9A. By the way, if you are interested or involved in traffic handling and do not have a copy of operating aid 9A, one can be obtained from either ARRL Headquarters or from me (K9UTQ).

The next item in the preamble of a message is the STATION OF ORIGIN. It is a REQUIRED part of the preamble. It is merely the callsign of the station from which the message was first put on the air. It is included so that handling stations will be able to communicate with the originator if something interferes with the prompt handling or delivery of the message.

If you call an amateur down the street to send a message for you, HIS call will appear in the premable - NOT YOURS! You can use your call in the SIGNATURE if desired however. More on that later.

The CHECK is the next item. It is another REQUIRED part of the preamble. It is the count of the number of words and numberals in the message text. Handling stations MUST agree on the check before the message is considered handled. Details of word count will be given later when we talk about the TEXT of a message. By the way, don't use XX in the check. Count the words and put the total in. If your count differs from the check put the original check then a "/" then the corrected check. For example 12/15.

The PLACE OF ORIGIN is the next part of the preamble. Also a REQUIRED item. It is the city or place from which the message was started and is NOT ALWAYS the location of the STATION OF ORIGIN.

For example, if a message is sent to you by mail from a nearby town, that town's name is shown in PLACE OF ORIGIN - not your city.

If the message was refiled from a MARS circuit, ALWAYS include "VIA MARS" in the PLACE OF ORIGIN in the preamble. This indicates that the message came into the NTS circuits from a Military circuit.

TIME FILED comes next and is the time at which the message was received at the station of origin. It is OPTIONAL but if used should be in UTC time.

The DATE is the last part of the preamble. This is a REQUIRED part and UTC time should be used to determine the date.

That's it for this month.

73 es CU on the nets.

BADGER EMERGENCY NET NOTICE

(PLEASE NOTICE THIS NOTICE)

Until September 1, 1988, the Badger Emergency Net is meeting on 7283 KHz, plus or minus interference. If propagation is not usable on that frequency, then the net meets on 3985 KHz. Remember, check 7283 (+ or -) FIRST. If you hear nothing, THEN go to 3985.

Here is the Badger State Smoke Signals publication schedule for news from ARRL Wisconsin Section appointees and WNA net managers:

MONTHLY: Section Manager.

JANUARY, APRIL, JULY, OCTOBER: Section Emergency Coordinator, Bulletin Manager, Technical Coordinator, Badger Weather Net, Badger Emergency Net, Wisconsin Sideband Net.

FEBRUARY, MAY, AUGUST, NOVEMBER: Section Traffic Manager, Official Observer Coordinator, State Government Liaison, Wisconsin Novice Net, Wisconsin Slow Speed Net, Wisconsin Intrastate Net/Early, Wisconsin Intrastate Net/Late.

MARCH, JUNE, SEPTEMBER, DECEMBER: Affiliated Club Coordinator, Public Information Officer, North Woods Traffic Net.

Items are due before the 10th of the month, if they are to appear in the next month's issue. For example, items for the July issue must be received no later than June 10 - and preferably sooner, if possible.

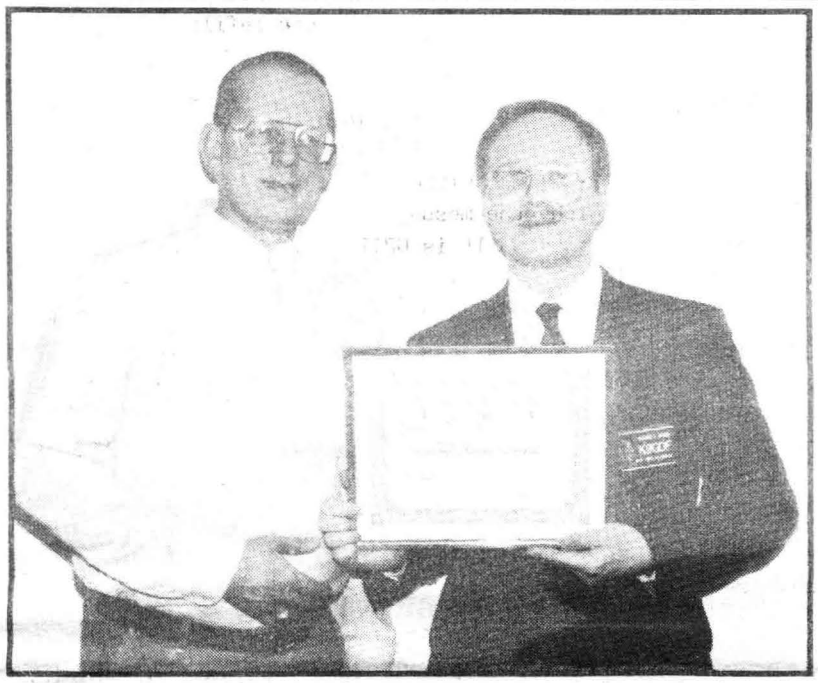
If an appointee or net manager has newsworthy information, he/she may send it to BSSS at other times than the above schedule. All items should be sent to K9ZZ; the address is on page 2.

PART 97 REWRITE WORTH A CAREFUL LOOK

In the four weeks since its release, the FCC Part 97 rewrite proposal, PR Docket 88-139, has been given careful study by League members, officers, directors, and staff. Quite a list of potential problems, both typographical and substantive, already has been accumulated, and more are bound to be noticed as the document is given further scrutiny. (A summary of the rewrite is on page 13 of this issue.)

If you have any special concerns regarding the amateur rules, or if you simply want to be well informed on a matter of great importance to Amateur Radio, you should obtain your own copy of the NPRM. A large self-addressed envelope with 85 cents postage, sent to ARRL HQ (225 Main St., Newington, CT 06111) and marked "Docket 88-139," will speed a copy back to you.

(Excerpted from **The ARRL Letter**)



WATERTOWN AMATEUR RADIO CLUB AFFILIATES WITH ARRL

Wisconsin Section Communications Manager Rich Regent, K9GDF, right, presents an ARRL Affiliated Club certificate to Watertown Amateur Radio Club President Claude Held, WA9KCU, in recognition of the club's new League affiliation. Photo by Les Peterson, W9YCV.

USED SATELLITE EQUIPMENT SALE

Laux actuator controller - MRC 2000
Via-Sat VSI Antenna Controller
(2)Drake - ESR 240 receiver
STS C+KU feed
Amplica down converter
(2) Sat-Tec R5000 receivers
Sat-Tec S5000 stereo processor
Arunta Interceptor II receiver w/remote
Anderson Scientific stereo processor SP710
Luxor receiver 9430
California Amplifier, Inc. 50db C Band LNA
PICO 6' Antenna w/feed

(Good)	2.7 - 4.2 GHz LNA - Locom
(Bad) (2)	3.7 - 4.2 GHz LNA - Locom
(2)	Amplica power supplies
(2)	Olympiad KLM down converters
(Bad)	Avantek
(Bad)	Tee-Comm 50db LNA
(Bad)	Amplica LNA
(Bad)	Chaparral Block Down Converters
(Good)	Intersat LNA
(Good)	Hytec Amplifier, Inc. LNA

Video Link Products

	Model 142 XL Service 35 Channel Cable Converter
(14)	Model 100 Switches 4 inputs - 1 output
(8)	Model 106 remote switchers
(5)	Model 170 Xtra Links (parts missing)
(18)	Model 103WR Switches 4 input
(8)	Viditek distribution amp SDA-140
(1)	Viditek RF adapter/amplifier APT 86
(11)	Video Link By-Pass Kits
(7)	Tru-Spec Signal Combiner SC-1

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RIVERLAND AMATEUR RADIO CLUB
ONALASKA WIS
SPECIAL SERVICE CLUB
ARRL

Greg A. Miller, KA9FOZ,
Secretary
2522 Wood Street
La Crosse, WI 54603

On May 3, 1988, at 7:30 p.m., the regular monthly meeting of the Riverland Amateur Radio Club was called to order by President Craig Goldbeck. The minutes of the April meeting were approved as read from the Badger State Smoke Signals. The Treasurer's report was approved.

37/97 REPORT

It was reported that there has not been any technical problems with the repeater lately. Nothing else to report.

VOLUNTEER EXAM REPORT

The next test session is still planned for June 16 at 7:00 p.m. in the Onalaska Community Center. Please notify Rick, KV9U, if you wish to take an exam.

OLD BUSINESS

There was continued discussion on the Explorer Post that was proposed at the last meeting. A motion was made and seconded that we inform the Boy Scouts that we are interested and that we plan on going ahead with it at the start of the 1988-1989 school year. The motion was passed. Craig will inform the proper persons at the Boy Scout office.

Van, WA9FIO, has invited all club members to his cottage on French Island for a picnic during the month of June. It was decided that it would be on June 11 and that further details of this will be discussed at the June meeting.

NEW BUSINESS

A discussion was started on the September Swapfest, a committee of possibly three people was requested to seek certain information that we would need to consider in planning the swapfest. Bill, WB9VYI, volunteered to be on the committee.

A motion was made that we start a family class membership which would consist of any family member of a full member that is living under the same roof could join our club at a cost of $5.00 per year. This would give that member full member privileges without the BSSS. The motion was passed.

Bill Wood, who has been handling the refreshments for the last 2 years, offered the job to anyone else that would like it; there were no takers. It was noted that Bill has been doing a great job of this.

Kent asked if anyone who had missed the last meeting that would like to join A.R.E.S. could do so by seeing him after the meeting.

The cash drawing was won by Steve Pavela, KA9TSW. He also won the opportunity to run the next drawing.

The meeting was adjourned at 8:02 p.m. Total members present was 30.

Respectfully Submitted:

Greg A. Miller, Sec./Treas. RARC

MEMBERS PRESENT

Rick Williams	KV9U
Greg A. Miller	KA9FOZ
Karl Olberg	W4ST
Ray Buhr	AA9M
Craig Goldbeck	N9ETD
Gary Countryman	KD9RL
William L. Wood	WB9VYI
Art Osborn	WØJDC
George Kroner	KA9HOP
Glenn W. Whitlock	NØBBW
Mike Tessmer	NØBSH
Dan McKenzie	WCØV
John Kass	WA9IZY
Herman Ludvik	W9HJV
Bill Winder	K9EGQ
Dick Low	KØJYB
Van Elston	WA9FIO
Charlie Burch	KA9UUK
Roger Reader	KA9BKK
Ray Wakeen	WA9HHM
Jim Burcum	K9LBX
Steve Pavela	KA9TSW
Wid N. Johnson	W9DM
Arby Boomer	N9HBQ
Dallas Miller	K9LEC
Kent Helman	W9LZQ
L. F. Bentzen	K9EGO
Ron Reed	KD9OY
Gary Webb	NI9V

GUESTS PRESENT

Dick Kleppe KØKTP
Maty Johnson Mike Goede
Royal Burkhardt

THE PRESIDENT'S GAVEL

I must say that I'm surprised at the good attendance we have had at meetings. It's nice to see each of you show up and get involved. The increased involvement from the members helps motivate the officers and gives you a better club in the process, so keep up the good work.

You will be all happy to know that our auction was a big success and netted a good amount for our repeater fund. Thanks to all of you who brought items to sell. I would like to especially thank Bill Wood and Gary Countryman for their organizing of the auction.

** REMINDERS **

.....Watch for details on the June picnic breakfast at Van's cabin on French Island.

.....Field Day June 25 and 26 at the Jostad Farm north of West Salem on Cty. M. We still need operators, setup and take-down crews.

.....Valley View Mall Liesure Time Weekend June 25 and 26.

73 'til next month

Craig, N9ETD

AGENDA FOR JUNE MEETING

1) Reading of the May minutes

2) Treasurer's report

 a) Results of the May auction

3) Committee reports

 a) 37/97
 b) Mall display
 c) Field Day

4) Old Business

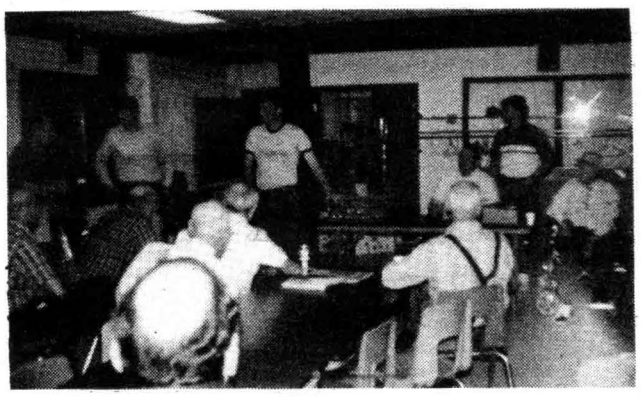
 a) Finalize plans for the June picnic at Van's
 b) Surprise unveiling!!!! Don't miss this!!!!

5) New Business

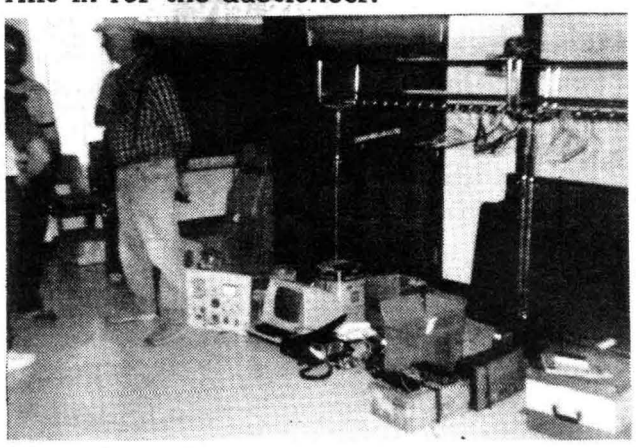
 a) Liability insurance issue
 b) Order patches?
 c) New business from the floor
 d) Cash drawing

JUNE PROGRAM: VIDEO TAPE OF THE SOUTH POLE, "HAM STYLE"

Auction Action: Photos by Greg, KA9FOZ



RARC President Craig Goldbeck, N9ETD, fills in for the auctioneer.



Ray Buhr, AA9M, stands by some of the items to be auctioned.

Eau Claire Amateur Radio Club

Bob Fallis, W9BAR,
Secretary
1851 McKinley Road
Eau Claire, WI 54703

The next meeting for the Eau Claire Amateur Radio Club, Inc. will be held June 14th at 7:30 p.m. in the Parks and Recreation Building, 1300 First Avenue, Eau Claire, WI.

MINUTES OF THE MAY 10TH MEETING

The meeting was called to order at 7:40 p.m. by president Jerry, NG9A. There were 27 members present.

The minutes of the April meeting were approved as read. There was no treasurer's report, the treasurer being absent.

OLD BUSINESS

KD9YO, Co-Chairman for our upcoming hamfest reported on how things were progressing. He said that he had attended the Duluth Hamfest, and passed out flyers. Everything is going ahead on schedule, and he doesn't forsee any problems. He will ask for work schedules to be set up at the next meeting.

Field Day: There is no club activity planned at this time.

W9NW presented a call-up list for use in conjunction with emergencies, especially the Sky Warn Net. A copy of the list is being submitted to Lt. MacNalley of the Eau Claire Police Department. MacNalley is the emergency coordinator for the city. Any members not yet on the call up list, and wishing to be included, should call Carl.

KA9HWN reported on the Walk-A-Thon for Chippewa Falls, and NG9A reported on the Eau Claire Walk-A-Thon. Everything was well covered, and no problems were noted.

We have been asked to furnish communications for University of Wisconsin, Eau Claire Alumni Walk-A-Thon, to be held June 18th at the campus. This will be finalized at our next meeting.

There will be an informal get together Saturday morning, the 14th, at the trailer. This is to get plans finalized for modifying the power circuits and remodeling the interior.

The program for the next meeting will be given by Paul, WØAIH. His topic will be antennas and progress at his antenna farm.

Lunch committee for June meeting: W9NW, W9MEO and KA9VKH.

The meeting was adjourned at 8:15. After lunch, a video on tornado damage and emergency procedures was shown.

Bob, W9BAR, Secretary

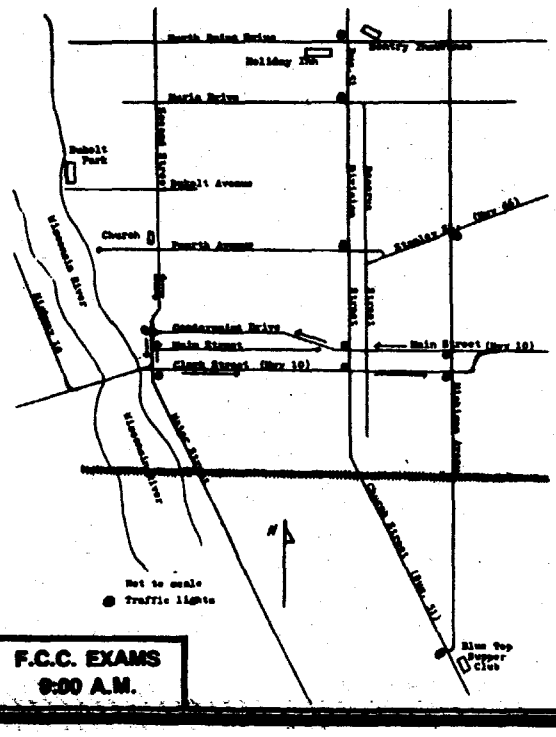
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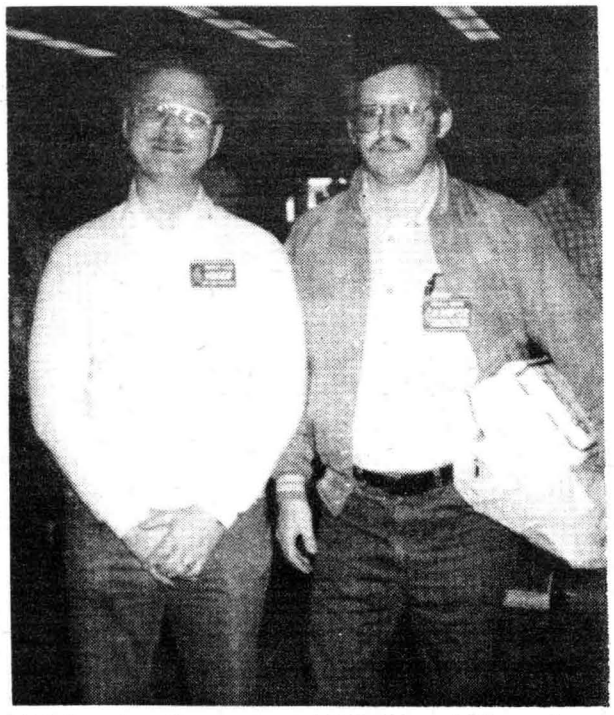
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AND
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FEATURING: SATELLITE CITY
PACKET RADIO
CONTINUOUS DEMONSTRATION

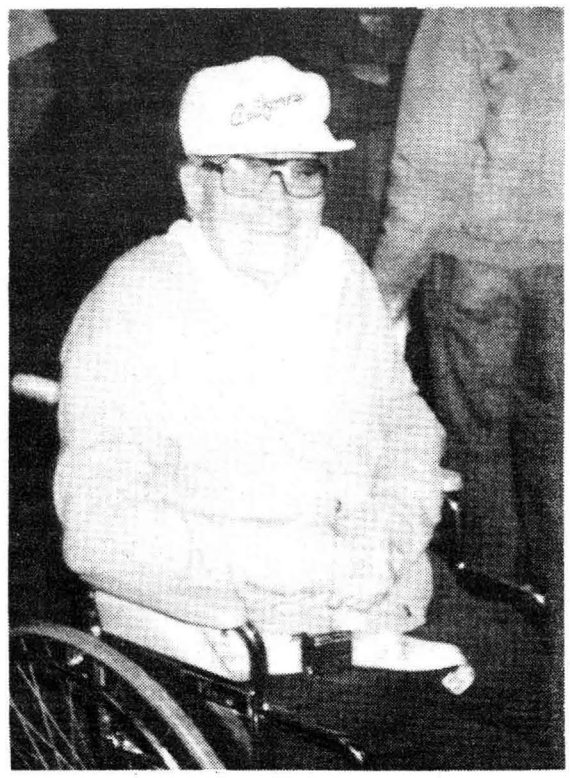


8:00 am "FREE ADMISSION"
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11:00 am BEER, BRATS,
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TALK IN
385/985
07/67 & 22/82
(WB9QFW)

Madison Swapfest Photos



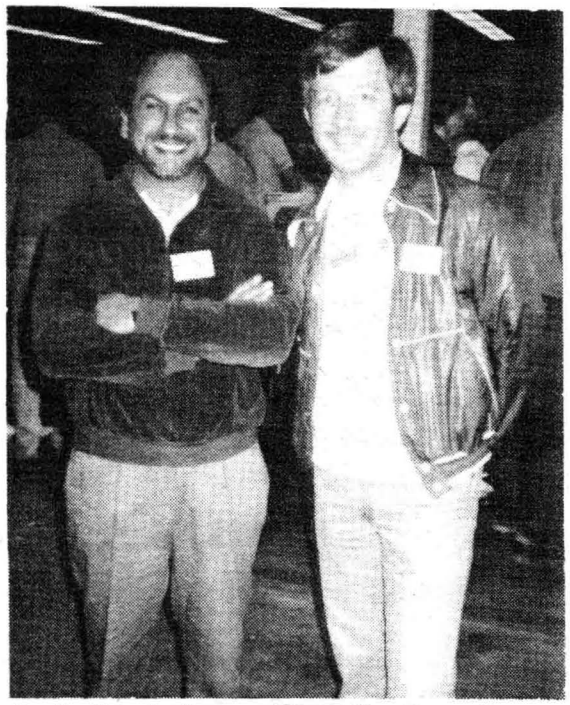
Richard Regent, K9GDF, Milwaukee (Wisconsin Section Manager) and Greg Miller, KA9FOZ, La Crosse (Wisconsin Affiliated Club Coordinator)



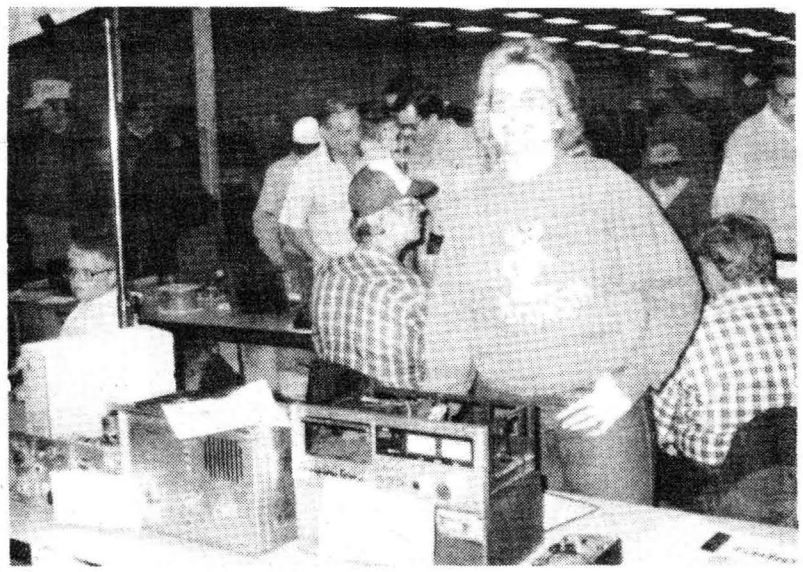
Bill Uhalt, W9UTV, Madison



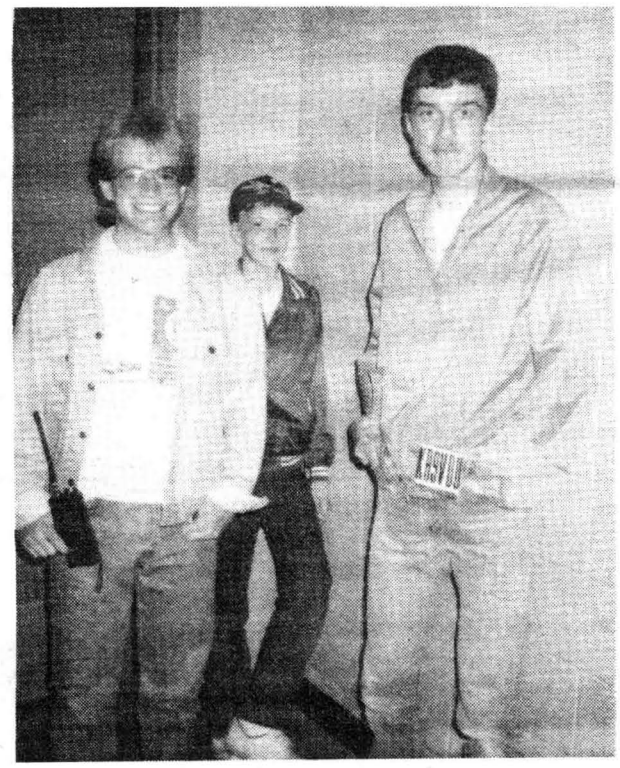
Bill Aspinwall, W9UGT, Madison, and Reno Goetsch, W9NA (formerly W9RQM), Wausau



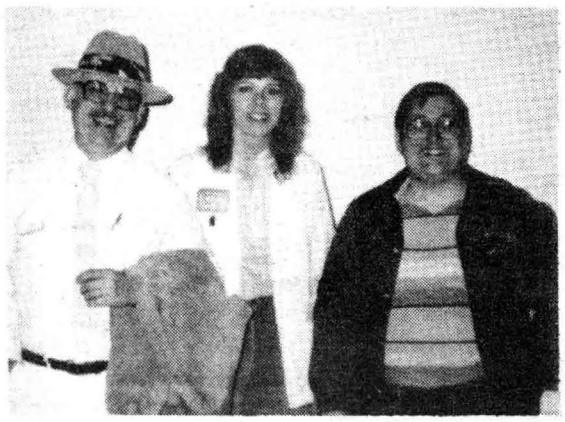
Joel Kupferberg, N9CPW, Vice-President of the Four Lakes Amateur Radio Club, Madison, and Scot Herrick, NB9C, Madison, FLARC President



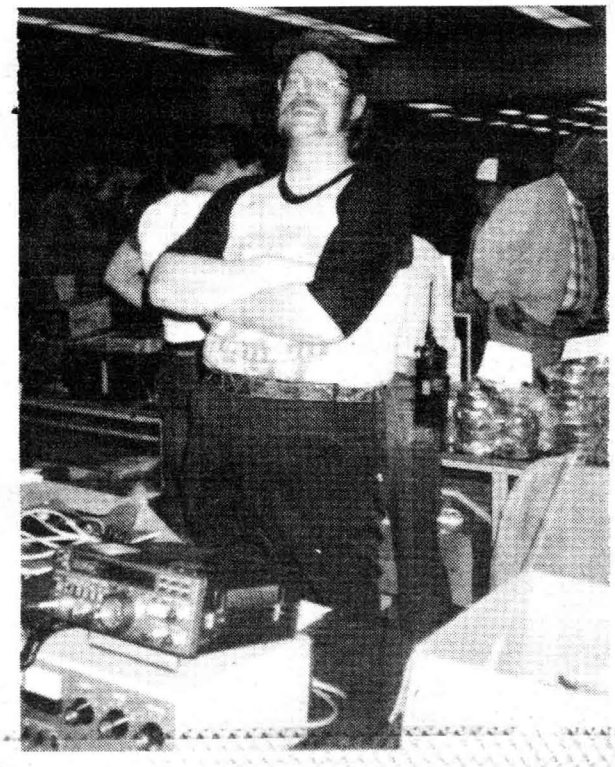
Barb Polishinski of Sun Prairie, wife of Steve, WB9-YSD, mans (womans?) Steve's table of assorted goodies, many of which were sold, gaining Steve and Barb several extra square feet of basement space.



Paul Amend, KA9OBP, Portage; Dan Zier and brother Greg, KA9VDU



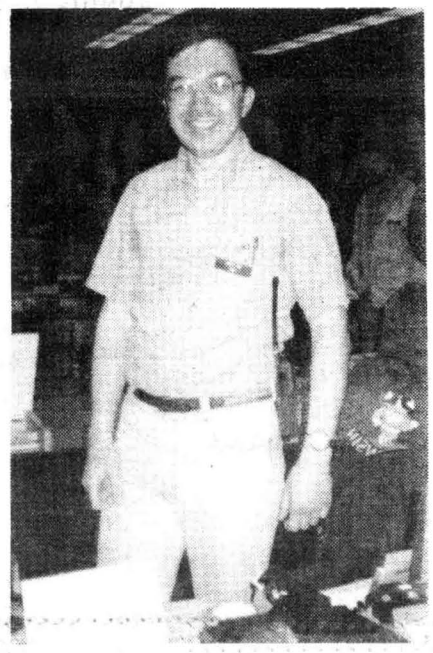
Dan Schobert, W9MFG, Plover ("The Rover from Plover" - Dan drives an 18 wheeler); Lisa Hauck, KA9RII, Eau Claire (Manager, Badger Emergency Net), and Larry Guthu, WB9ICH, Waupaca (Manager, Wisconsin Intrastate Net/Early (WIN/E).



Left, Rick Plouffe of Baraboo displays his wares.

At right is Tom Weeden, WB9HME, of Madison; Tom is the Wisconsin Section's newest Official Bulletin Station (OBS).

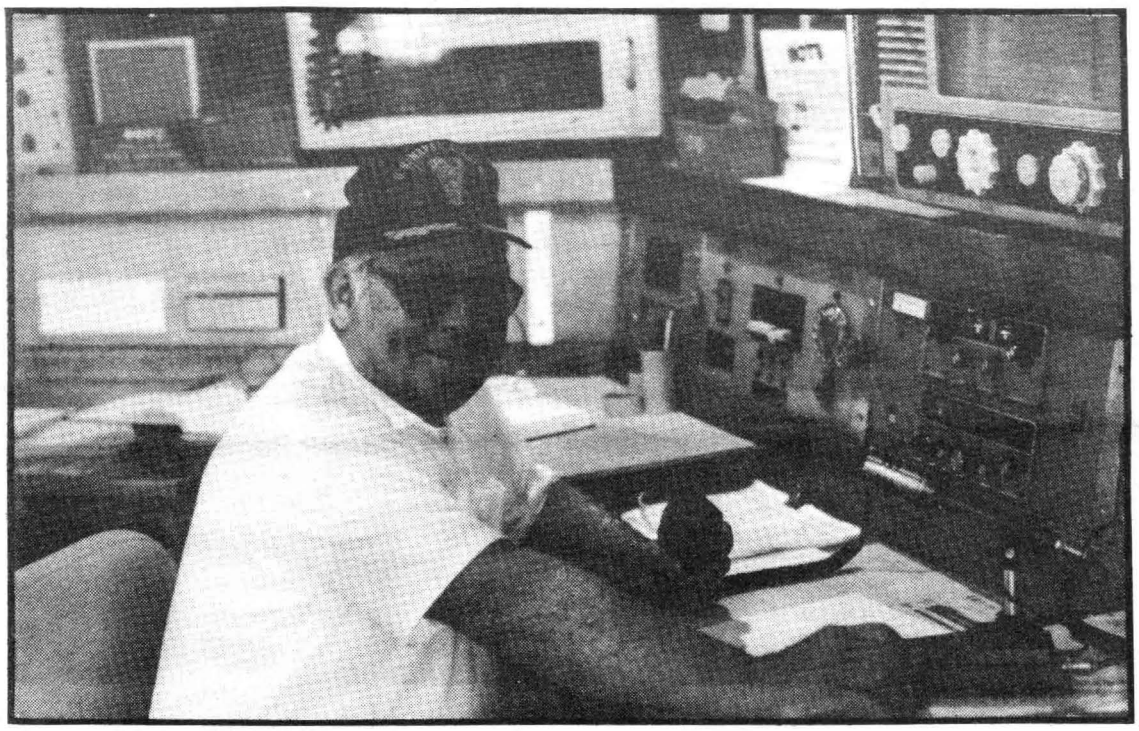
These photos were taken by K9ZZ at the Madison Swapfest, held Sunday, April 10, 1988, at the Dane County Forum Building in Madison.



WB9NYG Tours the Queen Mary

For part of this past winter, Russ Fleming, WB9-NYG, and his wife, toured the southwest in their new motor home. On February 9, they toured the HMS Queen Mary, the world's largest ocean liner, which is docked permanently at Long Beach, California as an exhibit and tourist attraction (top photo). The 81,237 gross ton ship's radio room is now occupied by Amateur Radio station W6RO, under auspices of the Associated Radio Amateurs of Long Beach, and, as shown in the bottom photo, Russ put in some operating time at the station.





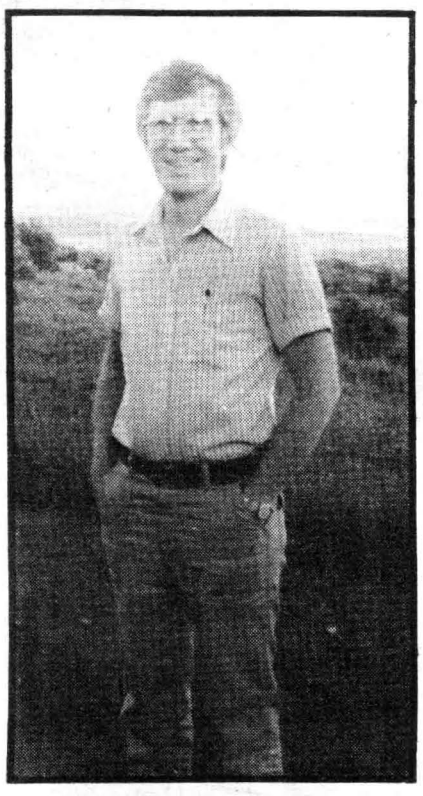
The Queen Mary's overall length is 1,019.5 feet; it had a passenger capacity of 1,957, plus a crew capacity of 1,174. Its cruising speed was 28.5 knots (55.17 km/hr, or 35 mph). It was commissioned by the Cunard Steamship Co., Ltd. The keel for the ship was laid on December 1, 1930; she was launched September 26, 1934. Her maiden voyage was on May 27, 1936. During World War II, the ship carried a total of 765,429 military personnel, including returning wounded to the United States. The ship was removed from British registry and turned over to the City of Long Beach (CA) on December 31, 1967.

The Flemings toured the ship, along with the famous wooden airplane designed by Howard Hughes, the so-called "Spruce Goose", a term loathed by Mr. Hughes.

Russ retired on January 8, 1988, after working 32 years in several capacities for the Wisconsin State Department of Transportation.

(Thanks Russ Fleming, WB9NYG)

The Spitting Image, Indeed



Orally propelling a small object a great distance put the fellow in this picture in the 1975 **Guiness Book of World Records.** The fellow is Dennis Schultz, KA9NUG, of Pardeeville, WI. And, Pardeeville, of course, is the site of the annual watermelon seed spitting championship. Dennis won the championship in 1973, when he spat a watermelon seed a then-record distance of 47 1/2 feet, and that record was listed in the Guiness book in 1975. Sadly, he was bumped by a new champion shortly after. He holds an Advanced Class license, and is active on the HF bands and 2 meters from his mobile; he's often found on the air enroute to and from work in Madison.

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SPECIAL EVENTS STATION MAY 28 & 29

Sixteen members and about 10 wives met at North Freedom April 30 for the annual Morse Day and national telegraph wire circuit. We are sorry to report the wire was not good this year, and few contacts were made from the "M-W" Chapter. However, the day was beautiful and the great dinner in the dining car and renewal of friendships made up for the lack of a good wire.

On May 28 and 29, members of the "M-W" Chapter and any Hams wishing to participate will operate special events station AD9E from North Freedom. Contacts will be made on 80, 40, 20, 15 and 10 meters, as open, from 9:00 a.m. to 5:00 p.m., 44 KHz up from the low ends of the CW bands, and also on 7144 in the 40-meter Novice band. If you make a contact and would like a special QSL card, send your card with an SASE to Bob King, KA9GNY, 411 Lynn Avenue, Baraboo, WI 53913.

- - - -

- Bob King, KA9GNY

SWAPFEST "88"

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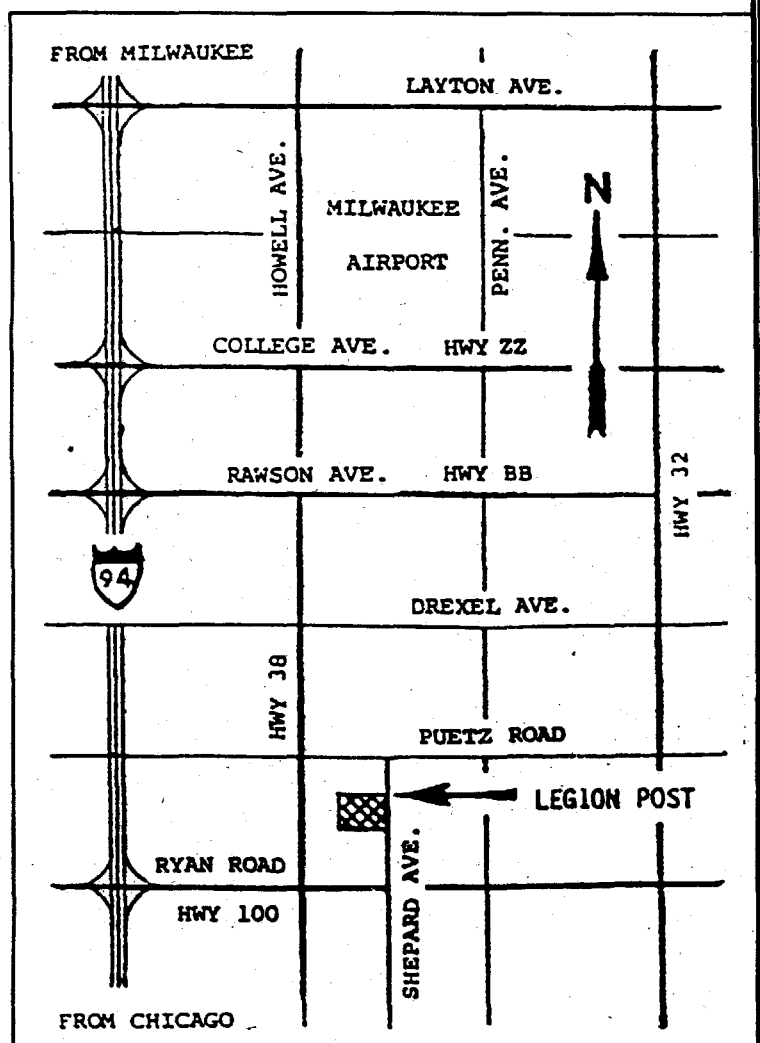
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ARRL ANSWERS UPS IN 87-14

(From front page)

gent, unique need for that particular segment and the rate of growth of packet radio overall. Second, the nature and degree of loading at 222-225 MHz is such that relocation of the disenfranchised packet links, should 220-222 MHz be appropriated.... will not be possible."

Lastly, we concentrate on the lack of understanding by UPS of the technology and the nature of amateur operation generally. For example, UPS notes in its comments "the few repeaters which now operate within the 220-222 MHz band could easily be placed in other parts of the spectrum without undue coordination problems." Of course, it is not repeaters which will be displaced, but rather control links, weak signal operation and packet links. We take the opportunity to explain the importance of control and auxiliary links.

The League concludes by saying: "All that UPS has offered in this proceeding is a vague statement of support for the proposed appropriation of two megahertz of spectrum which has been repeatedly.... demonstrated to be of critical importance to the Amateur Radio Service.... Nothing submitted by UPS or any other commenter has established that the same goals which might be accomplished at 220-222 MHz could not be satisfied by use of either the 150 MHz band or the 30-50 MHz band."

DEP'T OF DEFENSE SUPPORTS HAMS

Just at press time, the Department of Defense (DoD) has filed comments strongly supporting Amateur Radio to the late filed UPS comments in Docket 87-14, the FCC proposal to take away two megahertz from the amateur 220-MHz band.

Calling the UPS proposal seriously flawed, the DoD said that any reallocation of the 220 to 222 MHz band would displace amateur packet networks and other data links which could not be reaccomodated in other amateur bands. More details will appear in July QST and Badger State Smoke Signals.

(From The ARRL Letter

DID YOU KNOW

The first U. S. to Hawaii QSO was in 1922 by Cliff Dow, W6ZB?

- Gene Santoski, K9UTQ

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Gov's Conference Wrapup

Wisconsin state Radio Civil Emergency Service (RACES) station WC9AAG was operated from the annual Governor's Conference on Emergency Preparedness on Thursday, April 28; the station has been operated from the conference by volunteer Radio Amateurs for a number of years. This years' conference was held at the Olympia Resort at Oconomowoc.

The antennas for WC9AAG were installed the day before the conference by Jim Peterson, KA9KUA, Cross Plains; Dick Hugi, KC9CJ, Milwaukee; Roy Pedersen, K9FHI, Juneau; Jim Anderson, N9AGH, Madison, and Russ Fleming, WB9NYG, Waunakee. Dick Hugi supplied his Kenwood 430, coaxial cables, 75 meter dipole and antenna tuner; Jim Anderson furnished his packet station and antenna, and Russ Fleming brought his Azden 5000 and a 5/8 wave antenna. A backup Kenwood 440 was available, but was not needed.

WC9AAG operated from the conference from 8:00 a.m. until 4:00 p.m., and made 204 contacts on 2-meter FM, 42 contacts on 75 meters, and 36 contacts on packet. The 36 packet contacts include relays from the Badger Emergency Net on 40 meters via W9CBE in McFarland.

DX contacts were attempted to show the capability of the system, but propagation on 10 and 15 meters was poor. However, a contact was made with GB75USA, near York in the United Kingdom; the signal report was 5 X 5.

Several messages were sent for conference attendees. Ruby Jahnke, Civil Defense Director for Grant County, had a short QSO with her uncle, Clarence Jahnke, WA9YVC, in Markesan.

Contacts were made with 50 of Wisconsin's 72 counties; most of the counties missed are in northern Wisconsin. Since the operation took place during normal working hours, the total of 50 counties checked in is excellent. Contacts also were made in Minnesota, Iowa, Illinois, Michigan, and Indiana.

The statewide Amateur Radio community had been alerted that, if they checked into the net, they might have a chance to speak with Governor Thompson; it was not to be, since he was in Israel on a trade mission (last year, he was in Germany on a similar mission.)

Thanks to the volunteers who furnished equipment and time to install and operate the station; they are listed in the third paragraph. Thanks also to all who checked in; perhaps next year we will see that magic number of all 72 counties checked in!

– Russ Fleming, WB9NYG/WC9AAG



MAKING IT OFFICIAL

As we told you in our cover story last month, Wisconsin has a new Section Emergency Co-ordinator; he is Fred R. Wendt, W9ZAG, of Muskego. Fred, at right in this photo, was presented with his SEC certificate by Section Manager Rich Regent, K9GDF, at the May Milwaukee Amateur Radio Emergency Service meeting. Photo by Les Peterson, W9YCV.

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Phone (608) 643-6908

FIELD DAY is June 25 & 26; see QST for details. If your club or group takes to the wilds of Wisconsin, Upper Michigan, or elsewhere near Wisconsin, please send a few good, sharp photos to K9ZZ at Badger State Smoke Signals! The address is on p. 2.

Clip 'n' Carry

Wisconsin Repeaters • By Location

— Courtesy of the Wisconsin Association of Repeaters —

The WISCONSIN ASSOCIATION OF REPEATERS is an organization of trustees and representatives of repeaters, state-wide, whose goal is mutual cooperation on the VHF UHF spectrum, in the spirit of Amateur Radio.

GENERAL FREQUENCY COORDINATION POLICIES
1. We attempt to place no two repeaters on the same pair closer than 120 miles.
2. We attempt to place no repeater on a 15 kHz split pair closer than 30 miles to any adjacent 30 kHz standard spacing machine.
3. We not only assist proposed repeaters in finding a frequency where possible, but we actively attempt to protect existing repeaters' frequencies from interference whenever possible.
4. W.A.R. has suggested band plans for most of the FM spectrum, a subaudible tone plan for the State of Wisconsin and all necessary information for coordination of new or modifications to existing repeaters. Contact the Frequency Coordinator.

Nels Harvey, WA9JOB
Wisconsin Association of Repeaters
P.O. Box 23928
Milwaukee, WI 53223

O	Carrier Access	B	Burst
PL	Sub-Audible Continuous Tone	T	Touch-Tone
W	Whistle	C	Closed Private Repeater
A	Autopatch	(CA)	Closed Private Autopatch
E	Emergency Power	L	Link and/or Crossband
P	Portable	R	RACES Affiliated
Y	RTTY/ASCII	Z	Autopatch to Law Enforcement
PAC	Packet Data Exchange		

Wisconsin Sub-Audible Tone Plan By Region

North Central - 2A North East - 1B North West - 2Z
South Central - 3Z South East - 3A South West - 3B

Location	Rg	Input	Output	Call	Access	Sponsor
ALLENTON WI	SE	146.175	146.775	KA9HLP/R	O PL	HELPCOM LTD.
ALMOND WI	NC	144.810	145.410	KB9QI/R	C	ALMOND RPTR CLUB
APPLETON WI	NE	144.550	145.150	K9DHR/R	O CA E Z	CO. LINE RPT GROUP
APPLETON WI	NE	144.610	145.210	KB9IE/R	O PL	PRES GRANT RP ASSOC
APPLETON WI	NE	146.160	146.760	K9OQO/R	O	FOX VALLEY VHF ASSOC
APPLETON WI	NE	222.900	224.500	KB9IE/R	O A L	KB9IE
APPLETON WI	NE	448.025	443.025	WB9IYV/R	CLOSED	WB9IYV
APPLETON WI	NE	448.650	443.650	W9DKY/R	O	W9DKY
BALDWIN WI	NW	144.530	145.130	K9HQC/R	O Z911	ST. CROIX CTY. CD
BALDWIN WI	NW	147.930	147.330	K9HQC/R	O	ST. CROIX VAL. R.A.
BARABOO WI	SC	146.280	146.880	WA9WVE/R	O E	CENTRAL WIS RP ASSOC
BAYFIELD WI	NW	146.010	146.610	W9NSS/R	O	NORTHLAND ARC
BEAVER DAM WI	SC	147.915	147.315	N9GGZ/R	O	N9GGZ
BELOIT WI	SC	146.070	146.670	WA9JTX/R	O	BELOIT ARC
BELOIT WI	SC	222.700	224.300	WB9UBM/R	O A Z	C.B.S. RPTR GRP.
BERLIN WI	SC	448.850	443.850	N9AOZ/R	O A	N9AOZ
BURLINGTON WI	SE	146.145	146.745	WD9IGV/R	O PL	HONEY LAKE HAMS R.G.
BURLINGTON WI	SE	222.460	224.060	N9BBQ/R	O PL A E	SE WIS E R S
BUTTERNUT WI	NW	439.250	421.230	N9BXA/R	O VIDEO	N9BXA
CHIPPEWA FALLS WI	NW	146.280	146.880	WA9PAM/R	O	WA9PAM
CHIPPEWA FALLS WI	NW	449.350	444.350	WA9PAM/R	O O Z911	WA9PAM
DELAFIELD WI	SE	146.220	146.820	W9OOW/R	O A E	SEWFARS
DELAFIELD WI	SE	449.125	444.125	WD9DHI/R	O E PL 2A	SEWFARS
DEPERE WI	NE	448.750	443.750	N9EPC/R	O	N9EPC
DORCHESTER WI	NC	144.670	145.270	WA9ZCO/R	O E	WA9ZCO-WD9IKF
EAGLE RIVER WI	NC	144.790	145.390	KD9PT/R	O E	KD9PT
EAU CLAIRE WI	NW	146.310	146.910	K9UXP/R	O A E	EAU CLAIRE ARC
EAU CLAIRE WI	NW	147.840	147.240	KA9ELD/R	O	EAU CLAIRE ARC
ELKHORN WI	SE	146.265	146.865	WA9AJW/R	O A	WALWORTH CO. ARES
FOND DU LAC WI	NE	147.690	147.090	WD9ESH/R	O A E	FOND DU LAC ARC
FOND DU LAC WI	NE	222.140	223.740	WA4COY/R	O B A	WA4COY
FOND DU LAC WI	NE	449.150	444.150	WA4COY/R	O B A	WA4COY
FORT ATKINSON WI	SC	222.820	224.420	N9DTV/R	C	N9DTV
FRANKLIN WI	SE	52.030	53.030	WB9TRO/R	O E	WIS EXP RADIO ASSOC
FRANKLIN WI	SE	449.325	444.325	N9CFG/R	O	WIS EXP RADIO ASSOC
FRANKLIN WI	SE	449.625	444.625	K9WQG/R	PL 2A	K9WQG
FREMONT WI	NC	147.615	147.015	N9AOT/R	O	N9AOT
GERMANTOWN WI	SE	147.045	147.645	WB9EFP/R	C	WB9EFP
GRAFTON WI	SE	144.790	145.390	W9HRQ/R	O A	W9HRQ
GRAFTON WI	SE	147.765	147.165	N9APC/R	O	N9APC
GREEN BAY WI	NE	147.720	147.120	K9GB/R	O B PL	NE WIS VHF SOCIETY
GREEN BAY WI	NE	147.960	147.360	K9GB/R	O A PL	GREEN BAY MIKE & KEY
GREEN BAY WI	NE	222.340	223.940	WA9SXN/R	C	WA9SXN
GREEN BAY WI	NE	222.540	224.140	KZ9O/R	O	KZ9O
GREEN BAY WI	NE	222.620	224.220	K9JQE/R	C	K9JQE
GREEN BAY WI	NE	449.200	444.200	WB9VJV/A	C	WB9VJV
GREEN LAKE WI	SC	146.955	146.355	KB9WC/R	O	GREEN LAKE CO. ARC
GREENFIELD WI	SE	53.880	52.880	WB9WKR/R	O	GREENFIELD 6'RS
GREENFIELD WI	SE	222.400	224.000	N9ADQ/R	O A	N9ADQ
HAYWARD WI	NW	147.810	147.210	W9DLY/R	O	WILD RIVERS ARC
HELENVILLE WI	SC	448.825	443.825	N9FIB/R	O	N9FIB
HERTEL WI	NW	147.900	147.300	WB9RAY/R	O	WB9RAY
HERTEL WI	NW	221.880	223.480	WB9RAY/R	O A	WB9RAY
HERTEL WI	NW	448.500	443.500	WB9RAY/R	O A	WB9RAY
HILLSBORO WI	SW	144.770	145.370	WB9SBD/R	O	WB9SBD
HIXTON WI	SW	146.340	146.940	KC9YE/R	O	TREMP-JACKSON CTY RA
IRMA WI	NC	146.130	146.730	K9GTQ/R	O	K9GTQ
JANESVILLE WI	SC	144.850	145.450	WD9ACY/R	O A E	ROCK AMA TELE SYSTEM
JEFFERSON WI	SC	144.890	145.490	W9MQB/R	O	TRI-COUNTY ARC
JUNEAU WI	SC	146.040	146.640	W9TCH/R	O A E Z	ROCK RIVER RC
KAUKAUNA WI	NE	449.450	444.450	ND9Z/R	O	ND9Z
KENOSHA WI	SE	223.200	224.800	WB9LST/R	O Z911	WB9LST
KENOSHA/RACINE WI	SE	147.675	147.075	WA9YTH/R	O A E	WA9YTH
LA CROSSE WI	SW	144.630	145.230	N9ETD/R	O	FAROUT ARC
LA CROSSE WI	SW	146.160	146.760	K9CUT/R	O	LA CROSSE RP ASSOC
LA CROSSE WI	SW	147.810	147.210	N9BRA/R	O A	N9BRA
LA VALLE WI	SC	447.400	442.400	W9EBF/R	O PL	W9EBF
LAC DU FLAMBEAU WI	NC	146.070	146.670	N9ADA/R	O PL	N9ADA
LODI WI	SC	147.825	147.225	K9EYY/R	O E	K9EYY
MADISON WI	SC	146.685	146.085	W9YT/R	O PL A	UW-BADGER ARS
MADISON WI	SC	146.160	146.760	WB9AER/R	O B A E	MADISON AREA RP ASSN
MADISON WI	SC	146.340	146.940	W9FZC/R	O E	CENTRAL WIS RP ASSN
MADISON WI	SC	147.750	147.150	WB9AER/R	O B A E	MADISON AREA RP ASSN
MADISON WI	SC	222.220	223.820	WB9RSQ/R	O A	WB9RSQ
MADISON WI	SC	448.675	443.675	KD9UU/R	O PL A Z	KD9UU
MADISON WI	SC	449.500	444.500	WB9TAE/R	O	WB9TAE
MADISON WI	SC	449.775	444.775	NG9V/R	O PL	NG9V
MANITOWOC WI	NE	144.590	145.190	WB9MFB/R	O	WB9MFB-WB9DQD

Location	Rg	Input	Output	Call	Access	Sponsor
MANITOWOC WI	NE	146.010	146.610	W9DK/R	O A E	MANCORAD RP ASSOC
MANITOWOC WI	NE	147.630	147.030	WB9ESM/R	O A K	WB9ESM
MANITOWOC WI	NE	222.940	224.540	N9GHE/R		N9GHE
MANITOWOC WI	NE	448.975	443.975	N9GHE/R	O	N9GHE
MARKESAN WI	SC	449.400	444.400	KB9WC/R	O	KB9WC
MARSHFIELD WI	NC	147.780	147.180	WD9ISN/R	OAE Z911	MARSHFIELD ARS
MAUSTON WI	SC	146.250	146.850	W9EJD/R	O	ARC OF CENTRAL WIS.
MEDFORD WI	NC	147.750	147.150	WA9ZPC/R	O E P	TAYLOR CTY AREA ARC
MENASHA WI	NE	144.730	145.330	WB9ANR/R	O PL	PRES GRANT RP ASSOC
MENOMONIE WI	NW	146.010	146.610	W9WDK/R	O	RED CEDAR RP ASSOC
MEQUON WI	SE	448.225	443.225	WD9DHI/R	O PL2A E	WIS EXP RADIO ASSOC
MILTON WI	SC	146.115	146.715	WD9FKW/R	O A	WD9FKW
MILWAUKEE WI	SE	29.520	29.620	WB9ZRB/R	O	IND RP SYS
MILWAUKEE WI	SE	52.080	52.680	WB9ZRB/R	O	IND RP SYS
MILWAUKEE WI	SE	144.530	145.130	N9EGR/R	O PL A E Z	MILWAUKEE AREA ARS
MILWAUKEE WI	SE	144.570	145.170	W9FK/R	O Z	WEST ALLIS R A C
MILWAUKEE WI	SE	144.650	145.250	WB9JBF/R	O	WB9JBF
MILWAUKEE WI	SE	146.025	146.625	WB9ZRB/R	O	WB9ZRB
MILWAUKEE WI	SE	146.070	146.670	W9WK/R	Z	ARES
MILWAUKEE WI	SE	146.190	146.790	W9HHX/R	O A PL	MSOE ARC
MILWAUKEE WI	SE	146.250	146.850	W9KHO/R	O PL3A CA	MILW CO RP SOCIETY
MILWAUKEE WI	SE	146.310	146.910	WA9JOB/R	O E Z	MILWAUKEE RPTR CLUB
MILWAUKEE WI	SE	147.600	147.000	W9PY/R	C	PHANTOM RPTR CLUB
MILWAUKEE WI	SE	147.105	147.705	K9IFF/R	C	K9IFF
MILWAUKEE WI	SE	147.930	147.330	N9EDL/R	O PL2A	N9EDL
MILWAUKEE WI	SE	222.260	223.860	WB9UOS/R	O A E	WB9UOS
MILWAUKEE WI	SE	223.060	224.660	WA9HUX/R	O	EBONY KEY ARC
MILWAUKEE WI	SE	448.150	443.150	W9KHO/R	PL	MILW CO RP SOCIETY
MILWAUKEE WI	SE	448.300	443.300	WB9TYT/R	PL	WB9TYT
MILWAUKEE WI	SE	448.550	443.550	K9HXA/A	C	K9HXA
MILWAUKEE WI	SE	448.700	443.700	WA9HUX/R		E.K.A.R.C.
MILWAUKEE WI	SE	448.750	443.750	WA9POV/R	PL	MILW UHF SOCIETY
MILWAUKEE WI	SE	448.800	443.800	N9GMT/R	OAEZ PL3A	N9GMT
MILWAUKEE WI	SE	448.875	443.875	N9GMT/R	OAEZ PL3A	N9GMT
MILWAUKEE WI	SE	449.200	444.200	K9HXA/A	C	K9HXA
MILWAUKEE WI	SE	449.250	444.250	N9DII/R	O PL	N9DII
MILWAUKEE WI	SE	449.300	444.300	W9WK/A	O PL	MILWAUKEE CO ARES
MILWAUKEE WI	SE	449.800	444.800	K9HXA/A	C	K9HXA
MILWAUKEE WI	SE	449.950	444.950	N9EDL/R	O	N9EDL
MILWAUKEE WI	SE	919.025	907.025	N9EDL/R	O A Z911	N9EDL
MONROE WI	SC	144.510	145.110	NR9W/R		GREEN COUNTY ARA
NEW BERLIN WI	SE	147.885	147.285	W9EBF/R	O PL	W9EBF
NEW BERLIN WI	SE	447.400	442.400	W9EBF/R	O PL	W9EBF
NEW BERLIN WI	SE	449.500	444.500	WA9AOL/R	O	WA9AOL
NEW BERLIN WI	SE	449.850	444.850	WB9TRO/R	C PL A E L	WIS EXP RADIO ASSOC
NEW BERLIN WI	SE	449.875	444.875	WB9TRO/R	C	WIS EXP RADIO ASSOC
NEW HOLSTEIN WI	NE	147.900	147.300	K9LGU/R	O A E Z	C.A.R.E.S.
NEW LONDON WI	NE	146.625	146.025	WB9ICH/R	O	WB9ICH
NORTH FREEDOM WI	SE	223.080	224.680	KA9HKL/R	O	KA9HKL
ONALASKA WI	SW	223.380	224.980	WD9GCR/R	O	WD9GCR
OSHKOSH WI	NE	147.840	147.240	WB9TDU/R	O B A E Z	WINNEBAGO CTY. EG
OSHKOSH WI	NE	147.345	147.945	N9GHS/R	O PL A EZ	S.O.L.A.R. ASSOC
PARK FALLS WI	NC	147.600	147.000	WB9WHP/R	O	PRICE CO. RP ASSOC
PEPIN WI	NW	144.750	145.350	KB9S/R	O	WABASHA AREA ARS
PEWAUKEE WI	SE	147.810	147.210	WB9AKC/R	O PL6A	WA9CQV
PLYMOUTH WI	SE	223.340	224.940	KD9PE/R	O	KD9PE
PLYMOUTH WI	SE	449.350	444.350	WB9QCY/R	O E L	WIS EXP RADIO ASSOC
PORT WASHINGTON WI	SE	146.370	146.970	W9CQO/R	O A PL E Z	OZAUKEE RADIO CLUB
POWERS LAKE WI	SE	448.925	443.925	KC9XN/R	O PL2A	LAKE/KENOSHA AMA SOC
RACINE WI	SE	147.870	147.270	W9UDU/R	OAEZIPR	LAKESHORE RP ASSOC
RACINE WI	SE	448.950	443.950	KA9JMK/R	O	KA9JMK
RACINE WI	SE	449.050	444.050	KA9LOK/R	O	KA9LOK
RHINELANDER WI	NC	146.340	146.940	W9ZZZ/R	O	RHINELANDER RP ASSOC
RICE LAKE WI	NW	144.510	145.110	WA9CXN/R	O	WA9CXN
RICE LAKE WI	NW	147.630	147.030	WB9WFG/R	O	BARRON CO. ARES
RICHLAND CENTER WI	SW	146.310	146.910	WB9SLI/R	O PL	PINE VALLEY RP ASSOC
RUBICON WI	SC	144.750	145.350	WB9KPG/R	O A E Z	WB9KPG
SALEM WI	SE	222.120	223.720	N9BBQ/R	O A E L Z	N9BBQ
SCHOFIELD WI	NC	144.630	145.230	WB9JGA/R	O	WB9JGA
SHAWANO WI	NC	144.750	145.350	WA9BZW/R	O	WA9BZW-N9DGL-KA9NWY
SHEBOYGAN WI	NE	144.510	145.110	KR9S/R	O	SHEBOYGAN CTY DX ASN
SHEBOYGAN WI	NE	147.660	147.060	W9RF/R	O A	SHEBOYGAN ARC
SHEBOYGAN WI	SE	223.340	224.940	KD9PE/R	O LINKED	INPUT TO PLYMOUTH WI
SISTER BAY WI	NE	147.780	147.180	W9QBJ/R	O	WA9PFQ-W9QBJ-EM GVMT
SLINGER WI	SE	146.130	146.730	W9MQD/R	O B1200	WASHINGTON CO RP GRP
SOUTH MILWAUKEE WI	SE	144.630	145.230	N9BMH/R	PL E	SO MILW ARC
STEVENS POINT WI	NC	144.570	145.170	KD9NV/R	O A EZ911	KD9NV
STEVENS POINT WI	NC	146.070	146.670	WB9QFW/R	O A E	CENT. WI RADIO AMA.
STEVENS POINT WI	NC	146.385	146.985	W9NN/R		CENT. WI RADIO AMA.
STEVENS POINT WI	NC	448.950	443.950	K9MIF/R	O PL T	K9MIF
STURGEON BAY WI	NE	146.130	146.730	WB9YUY/R	O	WA9PFQ & WB9YUY
STURGEON BAY WI	NE	147.810	147.210	W9AIQ/R	OB1800AE	DOOR CTY EMER GOVT
STURGEON BAY WI	NE	449.000	444.000	WB9YUY/R	O	WB9YUY & K9GOZ
STURTEVANT WI	SE	29.540	29.640	WA9ZYO/R	O	WA9ZYO
STURTEVANT WI	SE	223.140	224.740	WA9ZYO/R	O A	WA9ZYO
SULLIVAN WI	SC	147.855	147.255	WA9VEU/R	O PL	WA9VEU
SUPERIOR WI	NW	146.160	146.760	W9BWK/R	O	TWIN PORTS AREA RA
SUPERIOR WI	NW	146.220	146.820	WA9VDW/R	O PL A	TWIN PORTS AREA RA
SUPERIOR WI	NW	449.900	444.900	WA9KLM/R	O A	WA9KLM
TOMAH WI	SW	144.790	145.390	N9BOE/R	O	N9BOE
TOMAHAWK WI	NC	144.830	145.430	N9CLE/R	O A	TOMAHAWK RPT. ASSOC
TOMAHAWK WI	NC	222.160	223.760	N9CLE/R	O	TOMAHAWK RPT. ASSOC
TREVOR WI	SE	447.600	442.600	KA9VZD/R	O	KA9VZD
WALES WI	SE	222.520	224.120	WB9DRO/R	C	WB9DRO
WALES WI	SE	449.975	444.975	WB9DRO/R	C	WB9DRO
WAUKESHA WI	SE	147.990	147.390	N9KS/R	O	E.A.R.S.
WAUPACA WI	NC	147.990	147.390	WA9FDC/R	O	WAUPACA ARC
WAUSAU WI	NC	144.850	145.450	WB9JGA/R		WB9JGA
WAUSAU WI	NC	146.040	146.640	W9SM/R	O A	WIS VAL RP ASSOC
WAUSAU WI	NC	146.220	146.820	W9BCC/R	O E	RIB MTN RP ASSOC
WAUSAU WI	NC	222.700	224.300	K9DB/R	O E	CENTAUR
WAUSAU WI	NC	223.140	224.740	WB9JGA/R		WB9JGA
WAUSAU WI	NC	439.250	421.250	AD9W/R	O E PL	VIDEO
WAUSAU WI	NC	434.750	425.750	AD9W/R	AURAL	-4.5 IN +4.5 OUT
WAUSAU WI	NC	449.300	444.300	W9BCC/R	O E	W9BCC
WEST ALLIS WI	SE	222.920	224.520	KA9JCP/R	O A E	KA9JCP
WEST BEND WI	SE	147.780	147.180	WA9THF/R	C	WA9THF-WA9HFB
WIND LAKE WI	SE	52.330	53.330	N9DIR/R	O	N9DIR
WIND LAKE WI	SE	448.500	443.500	N9DIR/R	O	N9DIR
WINNECONNE WI	NE	449.750	444.750	KA9UNC/R		KA9UNC
WISCONSIN RAPIDS WI	NC	144.690	145.290	N9EJO/R	OPLAEZ911	N9EJO
WISCONSIN RAPIDS WI	NC	146.190	146.790	W9DQA/R	O	MID-STATE RP ASSOC
WISCONSIN RAPIDS WI	NC	147.930	147.330	K9PJB/R	O CA EZ911	WIS AIRWAYS RP ASSOC

05-09-88

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BADGER STATE SMOKE SIGNALS June 1988

Say Yes to ATC

By Richard R. Regent, K9GDF
Section Manager, Wisconsin Section ARRL
5003 South 26th Street
Milwaukee, WI 53221

Answer this simple question: "Would you like to get a FREE ARRL Handbook, Radio Frequency Interference book, CATV Interference working materials, a subscription to Field Forum newsletter, and an ARRL green diamond lapel pin?" OK, time's up, what's your answer?

Does this deal sound good to you? If you said, "Yes," then volunteer as an Assistant Technical Coordinator (ATC) and get your own FREE starter kit of materials. You can qualify for an ATC appointment if you are an ARRL member, like ham radio technology, and apply through me.

ATCs serve as technical advisors to local ham clubs, assist by telephone or correspond by letter on technical topics, or refer inquiries to other experts. In the areas of radio frequency interference and technical information, ATCs can serve as advisors to solve interference problems or speak at local clubs on popular technical advancements.

If you have a desire to help others and would like to be part of the Assistant Technical Coordinator team, let me know soon. There are already 21 ATCs around the state. Your ATC certificate and free materials are waiting for you. Apply today.

Here is a list of our Wisconsin ATCs; if you are having technical problems for which you are having trouble finding answers, contact one of these:

BEAVER DAM: Allan W. Johnson, WB9FMU, N6451 CTH DE, Beaver Dam, WI 53916. (414) 887-7706.

BIG BEND: Walter A. White, Jr., W9FSH, S69 W22260 Sonoma Way, Big Bend, WI 53103. (414) 679-3915.

CEDARBURG: Gregg R. Lengling, WD9DHI, N60 W6667 Victoria Ct., Cedarburg, WI 53012. (414) 375-1231.

CUDAHY: Elmer J. Payne, Jr., K9EVH, 3957 E. Hammond Ave., Cudahy, WI 53110. (414) 481-5143.

GRAFTON: Herbert W. Roehner, WA9UVK, 680 Lakefield Rd., Grafton, WI 53024. (414) 377-3307.

HAYWARD: Roger V. Doehr, W9DLY, Rte. 5 Box 5418, Hayward, WI 54843. (715) 634-4505.

HELENVILLE: Arthur J. Kratz, N9TD,. N6204 Hwy. D, Helenville, WI 53137.

HILBERT: Robert R. Ronk, KB9IE, N5592 Mapleview Ln., Hilbert, WI 54129.

MADISON: John W. Frank, WB9TQG, P.O. Box 5113, Madison, WI 53705.

MADISON: Douglas E. Smith, W9WI, 6832 Schroeder Rd. #30, Madison, WI 53711. (608) 273-0169.

MEQUON: Edward T. Rate, AA9W, 9822 N. Andover Ct., Mequon, WI 53092. (414) 242-0376.

MILWAUKEE: Arney Lausevich, NK9O, 1518 N. 29th St., Milwaukee, WI 53208. (414) 342-3848.

MILWAUKEE: William N. LeCourt, WB9EQA, 1900 W. Kimberly Ave., Milwaukee, WI 53221. (414) 281-5361.

NEOSHO: Gary C. Sutcliffe, W9XT, W2463 Oaklawn Rd., Neosho, WI 53059. (414) 625-3533.

OAK CREEK: Verne D. Teske, W9RYA, 3260 Carol Ct., Oak Creek WI 53154. (414) 762-3235.

OMRO: George D. Louden, N9CCI, 205 E. Main St., Omro, WI 54963. (414) 6856172.

ONALASKA: Richard K. Williams, KV9U, 524 Troy St., Onalaska, WI 54650. (608) 783-8028.

SUN PRAIRIE: Steve L. Polishinski, WB9YSD, 912 Olympic St., Sun Prairie, WI 53590. (608) 837-6560.

WAUKESHA: George A. Blair, K9VGE, 807 Larchmont Dr., Waukesha, WI 53186. (414) 542-8264.

WEST MILWAUKEE: William G. Solberg, KA9REK, 4528 W. Scott St., West Milwaukee, WI 53214. (414) 643-5619.

WISCONSIN RAPIDS: Richard C. Scholl, N9EJO, 1820 Baker Dr., Wisconsin Rapids, WI 54494. (715) 421-2973.

FCC Part 97 Rewrite: Summary

Ah, it was so much simpler in the 1950s -- there were only five basic emissions, good old A-1 for CW, A-2 for modulated CW, A-3 for phone, A-4 for facsimile and A-5 for television. By the 1970s the list had grown to 14, ranging from "AØ", an unmodulated carrier, to "P" for pulse emissions.

With changes mandated by the 1979 World Administrative Radio Conference, there were almost 1300 different emission types in the FCC rules! Confusion over emissions is just one of the reasons for the proposed FCC reorganization of the amateur rules. The amateur rules have not undergone any major reorganization since 1951, and according to the FCC, many rules are redundant or obsolete. Still others duplicate extensive details that are contained in other parts of the FCC rules, or in the ITU Radio Regulations.

In this proposed reorganization, PR Docket 88-139, the total body of the amateur rules has been reduced by roughly 40% (For example, the 1300 emission designators have been reduced to 9!) According to the FCC, a host of new technologies have emerged and become popular in the amateur service. These additions and revisions to Part 97 have resulted in a patchwork of rules that can be confusing, especially to new amateurs.

The FCC proposes to restructure Part 97 into six subparts and four appendices. Except for the statement of the basis and purpose of the amateur service in 97.1, the Commission has completely reorganized Part 97.

So exactly what new changes have been made? Here is a brief summary:

* Emissions : The multitude of designators are now categorized under nine general terms. For example, all telephony emissions are now called simply "phone". All facsimile or television emissions are now called "image". All data or packet radio transmissions are called "data". "RTTY" emission is now defined as a single channel emissions for narrowband direct-printing. There is also an emission called "test" which is for on-the-air transmitter testing, direction finding or antenna measurements, where no modulation or information is being sent.

* Public Service: The FCC has codified rule interpretations guiding hams in support of public events. The proposed Part 97.101 sanctions amateur radio support of public gatherings such as parades, or marathons where the main beneficiary of the communications is the public. "Am amateur station may not be used for logistical support of any sponsoring organization."

* Broadcasting: The FCC has also codified its 4-part rule of reason concerning broadcast activities. Under the following limited circumstances, amateurs may convey news information: 1) If the event is unforseen; 2) the news information is directly related to the event; 3) the event involves the safety of human life or the immediate protection of property; and 4) the news information cannot be transmitted by any means other than Amateur Radio because normal communication systems have been disrupted or because there are no other communication systems available at the place where the information is originated. (97.219(f)).

* Swap nets: Under this proposal, amateurs are permitted to participate in selling their equipment over the air without fear of being cited by the FCC for business communications. Under the proposed rules "Communications to inform other amateur operators of the availability of apparatus normally used in an amateur station are not considered business communications." (97.219(c)).

In its introduction to the proposal, the FCC says that an asking price may be mentioned, "but no subsequent negotiations or bartering may take place. If interest is expressed, the amateur operators would exchange mailing addresses or telephone numbers and finish negotiations using means of communication other than amateur service frequencies." Of course, this exception does not apply to dealers or to what the FCC calls "amateurs who derive a profit by buying and selling amateur radio equipment on a regular basis."

* Self-assigned identifiers: According to the proposed 97.217(c) and (g) a self-assigned identifier may be used if 1) the ID does not conflict with any other identifier specified by FCC rules or by a prefix assigned to another country and 2) the identifier is separated from the call sign by the slant mark or by the word "stroke".

* A new section called "frequency sharing" (97.203) emphasizes that no frequency is assigned for the exclusive use of any amateur station. "Each amateur operator must cooperate in the selection and use of amateur service frequencies in order to make the most effective use of the frequencies." (97.203(b)).

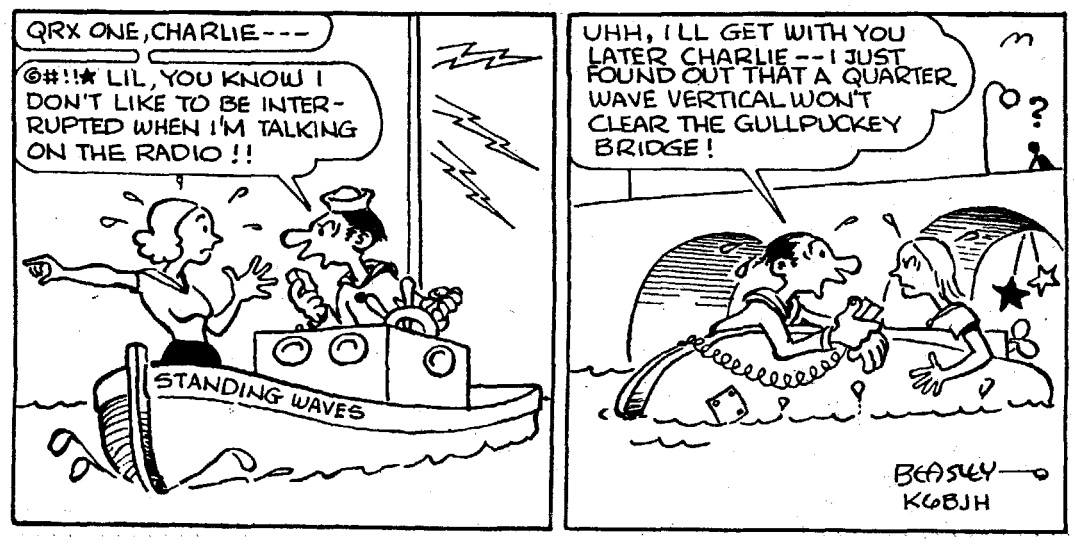
Nearly 40% of the total body of the rules are proposed to be dropped or greatly simplified. These include the list of emissions, alien reciprocal operating privileges, Amateur Satellite Service rules, requirements that examination papers be retained by volunteer examiners for a specified period, and quiet hours (the new proposed rules will simply state the Commission may restrict amateur operation as necessary).

The Commission specifically asks for comments concerning the three minute "time out" period. This is the period of time after which a remotely controlled station, such as a repeater, must stop transmitting if its control link fails. The FCC believes that this requirement may be too restrictive and requests comments if this time limit should be relaxed, and if so, what period of time would be appropriate.

All in all, there appears to be little of surprise in this Docket. It looks as though ARRL should be able to support the overall effort to reorganize our rules, but we will probably take some minor exceptions to the new proposals after further study by the Headquarters staff and input from the membership.

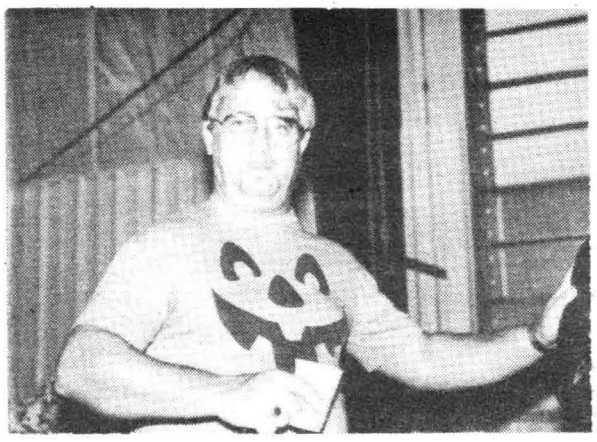
The FCC is accepting comments in this Docket, PR 88-139, until August 31, with reply comments due October 31. Copies of this Docket are available from ARRL HQ (225 Main St., Newington CT 06111) for a large SASE with $1.45 postage.

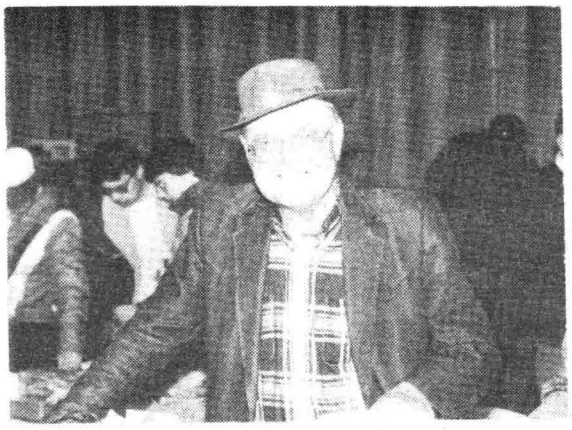
- From **The ARRL Letter**, published by The American Radio Relay League



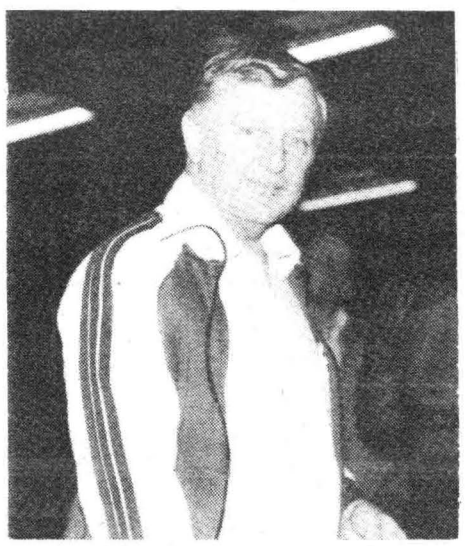
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Jefferson Swapfest Candids











These photos were taken Sunday, March 27, 1988, at the Jefferson Swapfest at the Jefferson County (WI) Fairgrounds by Ken Ebneter, K9EN. Top left: Mark Michel, W9OP, Menasha. Top center: Verne Teske, W9RYA, Oak Creek. Top right: Jack McLeland, W9-ATK, Milwaukee. Bottom left: Ken Ebneter, K9EN (Chairman, **Badger State Smoke Signals**) Portage and Harry Westlund, K9EHJ, Baraboo (BSSS Advertising Manager). Bottom right: George Stanek, W9RTP, Edgerton. The Jefferson Swapfest is an annual event, sponsored by the Tri-County Amateur Radio Club.

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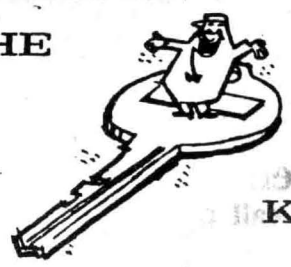
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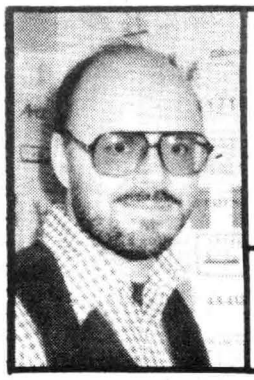
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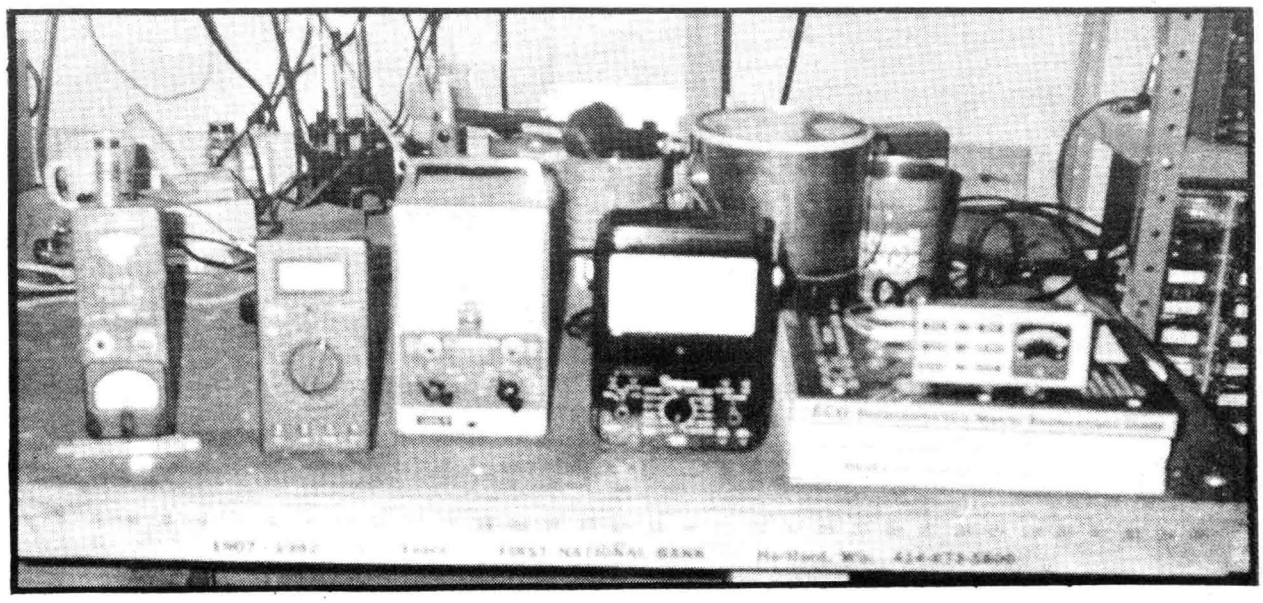
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John's Junk Box

By John W. Frank, WB9TQG
P. O. Box 5113
Madison, WI 53705



THE ART AND SCIENCE OF JUNK IDENTIFICATION

Every junkbox seems to contain a few unidentified components, the coil of unknown inductance, the rectifier of unknown ratings, and the transistor of unknown type, to name a few. The identification and use of these components is part of the challenge of building gadgets for the home and shack. The photo shows some of the test equipment I use to identify and evaluate junkbox components. The equipment includes (from left to right) a modified dip meter, a digital multimeter, a vacuum tube voltmeter, an analog multimeter, a homebrew transistor checker, and a few semiconductor reference books.

The dip meter comes in handy for determining inductance, capacitance, and resonant frequency. The procedure for performing these measurements is described in the **ARRL Handbook for Radio Amateurs.** I use the multimeters to measure resistance of unmarked resistors, check continuity of coils and chokes, and to measure voltages on transformer windings.

When checking power transformers, I carefully examine the transformer for windings that may be shorted to the core. Then, after confirming that the transformer uses the standard color code, I apply AC to the primary through a fused line cord. When moving the test leads to different transformer leads, I unplug the line cord to avoid any risk of accidental shock.

The homebrew transistor checker is used to check diodes for front to back ratio and to check transistors for gain, leakage, and type (PNP or NPN). Those books beneath the transistor checker are reference guides and replacement books. If I find a semiconductor at the bottom of my junkbox, and I want to know what it is and what its ratings are, I can usually cross-reference it to an equivalent transistor from some other manufacturer and figure out what it is and what it can do.

Another handy piece of test equipment (not shown in the photo) is the RLC bridge. I use it to identify coils and capacitors that fall outside the range of the dip meter.

Reusing good used components has saved me a lot of time and money in recent years. Quite often I don't have to go down to the local parts emporium to buy a pair of diodes to finish my latest project. I just reach into my parts bin and pull out some good used parts I got out of a dead TV or some other piece of cast off electronic apparatus.

- 73 and scrounge carefully -

DE WB9TQG

QSO Party Results Next Issue

The official results of the 1988 Wisconsin QSO Party will be published in the July 1988 issue of **Badger State Smoke Signals.** All stations which submitted logs will receive that issue. The Wisconsin QSO Party is held annually, and is sponsored by the West Allis Radio Amateur Club, Inc. The date for the 1989 Wisconsin QSO Party has not yet been announced; when the date is known, it will be published, and will also appear in the WARAC advertisement on the last page of each issue.

IT'S IMPORTANT!! When you respond to an advertisement in **Badger State Smoke Signals,** please be certain that you tell the advertiser you saw his ad in this publication. They need to know they are getting response from advertising in this paper, and it will help us to keep advertisers in BSSS. Remember, it's important!! Thanks!

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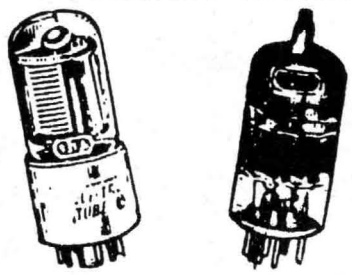
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Introducing an Amateur Radio Pioneer: W9AKY

Story and photo by
Les Peterson, W9YCV
9741 West Howard Avenue
Greenfield, WI 53228



Les Jenks, W9AKY — Hamming since 1919

Les Jenks, W9AKY, a native of the La Crosse, Wisconsin area still pursues the amateur radio hobby from his home on the shore of Lake Wisconsin on French Island in Onalaska and from his mobile on 2 meters. From his operating position, he has a nice view of the lake through the living room picture window.

Les began the pursuit of amateur radio back in 1919 with the "bootleg" call of LJ. Many beginners began with self-assigned calls in those days. After WW I, he received the 9AKY call and was active in the La Crosse area. For a while, he held the additional call of W9DAE.

His fond recollections are of the Spark Days around 1918, and of the spark station set up at the former Central High School. This station was 9DMO. The transmitting equipment, on loan to the school from Ben Ott, 9ZY, consisted of a 2 KW spark transformer, Benwood synchronous rotary gap, and 4- or 5-wire antenna strung from the school's tall smokestack to a balcony.

All of Les' schooling was in Wisconsin, except for the ICS course in electronics that he took. Most of his life has been spent in Wisconsin, except for a short period in Chicago. It was during this period that he got the call W9AKY.

Les was with the La Crosse Police Department for about 30 years, and was Chief of the Communications Department. He proudly recalls installing the first two-way communications system in Wisconsin. He retired in 1966.

As for amateur radio pursuits, Les spent some time DXing, and has worked over 200 countries. He was active in the 10-10 club; he was a net control on it back in 1967 and holds certificate #125 of 10-10 Southern California. He was active in traffic nets for a time, net control for BEN some years ago, member of the Wisconsin Expo Net and manager of it for a time.

During WW II, Les was Civil Defense Communications Officer in La Crosse. After the war, when amateurs got back on the air, Les had a contact with a DL4 who was a Captain in the U.S. Army, stationed in Germany. This Captain was able to get the Civil Defense Director's son, who was on guard duty, off duty long enough to talk to his mother in La Crosse through Les' station.

Nowadays, ragchewing on HF and VHF, with some DXing thrown in, are Les' main interests. At the time the accompanying picture was taken, the station consisted of a TS-520, FL-2100B linear amplifier, mini-quad beam, and 75-meter dipole for HF. On 2 meters, he has an IC-25A going to a Mosely 2-meter vertical or a vertically polarized Cushcraft 11-element beam. While relaxing in the easy chair, he uses an IC-27A or a Tempo S-1 handheld while walking around. Les also has a TS-120S with an AT-250 antenna tuner, which serves as an emergency/standby rig, usually battery powered. It can also be used for mobile work, as can one of the 2-meter rigs. Since the picture was taken, a Kenwood TS-440S has been added to the station equipment.

Les is a member of the Riverland Amateur Radio Club, the ARRL and its Old Timers Club, QCWA and Wisconsin Chapter 55 of QCWA. He has received the QCWA Golden Anniversary certificate with 55/60/65 year sticker endorsements, is nearing his 70 year sticker, and has the 50 year continually licensed certificate.

Among his memorabilia items is a picture of a group of La Crosse area amateurs visiting his station which appeared in the La Crosse Tribune back in 1922.

Les, the visit with you was most enjoyable, and it is hoped you continue to enjoy many more years in the hobby.

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TCP/IP Official Hostname Format

Until now, there has been no official format for TCP/IP hostnames, and we've been following our own convention. Now, the Network Information Center in Palo Alto, CA, which manages name domains for the entire Internet, has issued a domain name for amateur packet radio.

Effective immediately, the form of an amateur packet hostname should be "<callsign>.ampr.org". For example, my hostname will be "w9nk.ampr.org". If you have more than one machine on the air, as several stations do here in Madison, call them things like "at.w9nk.ampr.org", with your primary station (the one on the air) still called "w9nk.ampr.org".

Dan - W9NK

Atari split screen terminal program.

I have a semi split screen program available for the Atari. It is V 3.0 of the Express 850 software. It has several new features. A two line edit window at the bottem for transmitted text. Also has an improved xmodem mode. A free copy is available from me, but I do ask that you send me a disk and disk mailer with 65 cents return postage. Due to the numerous response I will get, I cannot afford to supply all the postage. I'll be more than happy to run you off a copy of the program free of charge. Disk mailers without the correct amount of postage to make the return trip cannot be returned. I am doing this as a courtesy to all Atari users.

73, Dan N6MXG @ N6YN

German Net/Rom Clone

I've picked up a copy of the hex code for TheNet, a no-cost net/rom clone from a group in Germany. I've not tested it, but others who have indicate that it appears to work. If you're interested, and have tcp/ip, it's posted for anonymous FTP on my machine, under the name thenethx.arc. If you don't have tcp/ip, but would like to get it, you can leave mail for me on this bbs, and we'll try to figure something out. 73, Dan - W9NK

Interference From TNC's

I have recently taken the opportunity to observe electromagnetic compatibility of the MFJ-1270B as used by several of our NET/ROM nodes. (some of this may apply to other brands also.) The initial results were not as good as they should have been. The question was 'Do the TNC's cause interferance to co-located sensitive VHF receivers ?' The answer is YES, depending on the situation.

In two different sites measured, the noise coming from the TNC was sufficient to cause 4-7 db worth of desense to a 0.2 uv (12 db SINAD) receiver (145.01). There are two types of noise that are that radiate from the MFJ-1270B. One type is broadband in nature (probably due to data/address bus activity and DC-DC converter operation) the other kind is harmonics from the crystal oscillator and sub multiples thereof ((4.9152/2) * 5 = 144.998 mhz). The broadband noise can cause interferance on all frequencies if a sufficiently sensitive receiver in a quiet location is involved. The harmonic energy can cause problem on specific frequencies.

This interferance is detrimental to the weak singals that serveral of our nodes are required to operate with. In addition it may cause problem to the communications of our hosts when we share a commercial site.

It is relatively easy to determine if you have a harmonic problem because the receiver noise will quiet when the TNC is turned on. The broadband noise usually can not be heard unless you observe the noise level in the presence of a weak signal. (With the normal antenna connect, inject a signal that provides 10 db of quieting then turn on the TNC and observe the change in noise level. If you have a 0.5 uv receiver or are in an otherwise noisy location you may not be affected. With a 0.2 uv receiver you may lose 6 db of quieting.)

CLEANING UP THE MFJ 1270-B

Sufficient reduction in the energy emitted by the 1270B can be had with some relatively simple modifications to the 1270B. These modifications should reduce the broadband noise level to a insignificant level for most sites. Harmonics that cause problems to specific frequency can usually be moved far enough off frequency by 'rubbering' the crystal with the trimmer in the TNC.

1. Scrap the paint from the inside of the covr and the outside of the chassis near the four screws that hold the cover on.

2. Remove the circuit board from the chassis and scrape the paint from the top of the four posts that hold the circuit board.

3. Add a low inductance strap from the mounting hole near the power switch to the ground trace at the edge of the circuit card. (The bottom side of the card works the best.)

4. On the bottom side of the card add a 'small' 0.001 uf capacitor from each of the four active pins on the DIN connector to the ground foil immediately adjacent.

5. Add a ground strap from the foil on the bottom side of the card under the DIN connector. The ground end of this strap can be left dangling until the card is reinstalled and then looped to the outside of the chassis and grounded with a small self tapping screw on the lip just below the DIN connector.

If you are at a shared site, you owe it to the other services to be a good neighbor.

AL, KOVM

KPC-2 2.83 Bug

If you have version 2.83 in a Kantronics KPC-2, you may have discovered a gremlin when loading a message into the PBBS via the PBS command. The bug manifests itself when typing only a carriage return at the msg: prompt without any other characters. The KPC-2 will download 'garbage' to the screen and then hang-up requiring a HARD-restart!

The several people throughout the country who had discovered the bug and called Kantronics were awarded a new 2.84 EPROM - Thats right, 2.84! - and an apology. Now thats support and customer service!

The following item was too long to complete in one issue, so it is being presented in two parts. Part one was last month and here is part two.

MBL 331 User Documentation
Complete Version -- Part II

S - The "S" command lets you SEND MESSAGES (not "files").
- Type "S[space][callsign]" to SEND an open message.
- Type "SP[space][callsign]" to SEND a PERSONAL message.
- Type "S[space][callsign] @ [callsign]" to SEND a message to a station AT another PBBS by automatic mail forwarding.
- Type "ST[space][NTSxx]" to SEND NTS traffic. xx is the State abbreviation. To send NTS traffic for New York, type "ST NTSNY".
- Type "SB ALL" to SEND a general bulletin addressed to ALL.
- Type "SB ALL $" to SEND a general bulletin addressed to ALL with a ID assigned to it. This is the recommended method as it assigns a BID to the bulletin to aid in not duplicating this bulletin at other BBS locations. Note The $ may be used with any of the "S" commands, therefore assigning an ID number and helping in not duplicating it.

Be sure to hit <Enter> or <Return> after each command.

The form: "S call1 @ call2" is also supported. call1 is the addressee, call2 is the bbs to forward the message to. Example: SP K1KSY @ WORLI

The form: "S call1 @ call2 $" is also supported. The added "$" will automaticly assign a ID to the message. This is very useful for messages that are forwarded to other BBS systems. It will cause this BBS to check the receiving BBS for the presence of the message before forwarding. If the message doesn't exist it will then allow the sending BBS to go ahead and send it, If it does exist already on the receiving BBS, it will not allow the sending BBS to send it, therefore eliminating duplication of that message on the receiving BBS.

NOTE: You can't "send" files. To Upload a file, use the "U" command.

T - The "T" command "pages" the PBBS System Operator (SysOp).
- Type "T<enter>" to TALK to the SysOp. If SysOp IS available to chat, you'll get a response within ONE MINUTE. Otherwise, the PBBS will advise you that SysOp doesn't answer. You'll be returned to the command prompt and can continue normally.

U - The "U" command lets you UPLOAD a file TO the PBBS file section.
- Type "U filename.extension<enter>" to upload a file. You MUST use PC/MS-DOS filenames. For example, type "U BORK.DOC<enter>" to upload the file "BORK.DOC".

NOTE: You can't "upload" mail. Use the "S" command to send mail.

V - The "V" command shows you the specific version of this PBBS, the date of the software release and the copyright notice. This also shows the number of active messages and the next message number.
- Type "V<enter>" to see this PBBS's software version.

The "V" command also lets you READ MESSAGES with a verbose listing, including the message routing.

- Type "V[space][message#]" to READ a specific message. You may have up to 6 message numbers per line.
- Type "VM" to READ ALL messages addressed to YOU [Read Mine].
- Type "VN" to READ ALL NEW messages addressed to YOU [Read New].
- To READ msgs #313 and #325 type "V 313 325". Don't forget SPACE.

W - The "W" command lists the FILES available on disk. Depending on system capacity, files may be divided into sub-directories by class or category.
- Type "W<enter>" to list the MAIN file directory [What files].
- Type "WN<enter>" to list NEW files in the MAIN directory [What New].
New means new since the last time you logged onto the system. There may be sub-directories, which will appear as "MAPS <DIR>" when you do the directory listing. To list the files in these directories, type the sub-directory name after the W. For example:
- Type "W NEWS<enter>" to list the NEWS directory.
- Type "W PACKET<enter>" to list the PACKET directory.
- Type "W ARRL<enter>" to list the ARRL Bulletin directory.

X - The "X" command changes your status between "normal" and "eXpert" user. "Normal" mode gives you complete prompts and standard messages.
- Type "W ARRL<enter>" to list the ARRL Bulletin directory.

X - The "X" command changes your status between "normal" and "eXpert" user. "Normal" mode gives you complete prompts and standard messages. "eXpert" mode gives you a very short command line and nothing else.
- Type "X<enter>" to toggle your status between "normal" and "eXpert".

Y - The "Y" commands call the YAPP binary transfer programs.

NOTE: You MUST use the YAPP Program for binary transfers with THIS PBBS. (YAPP is available for PC/MS-DOS systems only at this time)

COMMAND	FUNCTION
YW	Show Directory of available binary files
YN	Show Directory of binary files added since your last logon
YU	Start binary file upload TO the BBS
YD	Start binary file download FROM the BBS
YH	Show detailed help file

The YW and YN commands will show the dates and sizes of the files as well as available disk space. Verify that your upload will not exceed this space. For detailed examples, type YH.

The "Y" commands call the YAPP protocols with which you can upload and download binary files. You MUST use the "YAPP" packet terminal program in YOUR computer - binary transfers with THIS PBBS WILL NOT WORK with other terminal programs or emulators. At this time, the YAPP program is available ONLY for IBM-PCs and compatible MS-DOS computers.

1. TO LIST DIRECTORY OF BINARY FILES - the "YW" Command Type "YW<enter>" to see a directory of available binary files. The PBBS will send its directory of available BINARY files in "wide-screen" MS-DOS format, showing the individual file sizes and dates, as well as the disk space available in the host PBBS.

2. TO LIST NEWLY-ADDED BINARY FILES - the "YN" Command Type "YN<enter>" to see what NEW binary files have been added to the host PBBS since you last logged on. File dates and sizes are also shown.

3. TO UPLOAD A BINARY FILE - the "YU" Command Type "YU filename.extension<enter>" to upload a file. The PBBS will respond with "Ready to Receive with YAPP protocol". Be sure to include all necessary path and filename information so that YAPP can "find" your file for uploading.

For example, to upload the binary file "BORK.COM": At the normal command prompt from the distant PBBS;

- Type "YU BORK.COM<enter>". The PBBS responds with "Ready to Receive with YAPP protocol".

- Press the "F7" (Bin Send) key. A small window will open on your screen and prompt you to "Enter Filename:"

- Type "BORK.COM<enter>" ; your keystrokes will appear in the small window.

In a few seconds, the lower-left area of your screen will show activity. Your TNC will automatically be switched into Transparent Mode and the binary transfer will begin. The small window will be replaced by a larger window which now shows YAPP File Transfer Protocol status and progress data. The new window shows you the name of the file being uploaded, the size of the file in bytes, the STATE of the transfer, the number of bytes transferred and the "Press <ESC> to abort" prompt. During the file transfer, STATE information will change to show you what's happening between your computer and the host PBBS. When the entire file has been transferred, the window will show "SEND COMPLETE - Awaiting Final Ack", and then "TRANSFER COMPLETED OK" and "Returning to Terminal Mode". The window will close and the host PBBS will send you its normal command prompt indicating that it is ready for your next command.

If your "upload" is long, be sure to use the "YW" directory command to check available disk space before sending the file.

4. TO DOWNLOAD A BINARY FILE - the "YD" Command

Take the time to verify the CORRECT filename of the file you wish to download.

- Type "YW<enter>" to see the directory of binary files. The host PBBS will send its directory of binary files, show you the size of the file you want, and the disk space available.

Type "YD filename.extension<enter>" to download a file. The PBBS will respond with "Ready to Send with YAPP protocol".

For example, to download the binary file "ZORCH.COM": At the normal command prompt from the distant PBBS;

- Type "YD ZORCH.COM<enter>". The PBBS responds with "Ready to Send with YAPP protocol".

- Press the "F8" (Bin Rcv) key. A small window will open on your screen and prompt you to "Enter Filename:"

- Type "ZORCH.COM<enter>" (or whatever path and filename you wish to appear in your system); your keystrokes will appear in the small window.

In a few seconds, the lower-left area of your screen will show activity. Your TNC will automatically be switched into Transparent Mode and the binary transfer will begin. The small window will be replaced by a larger window which now

(continued on page 19)

Yellow Thunder Amateur Radio Club

K9ODK
WB9FDZ

The next meeting of the Yellow Thunder Amateur Radio Club will be held on Tuesday, June 14, 1988, in room 25 of the Baraboo Civic Center, Baraboo, Wisconsin. The meeting will begin at 7:30 p.m. The program will be club planning for the YTARC Field Day outing.

The May meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order by President, Steve Schwoegler, WB9RNL, at 7:35 in the Baraboo Civic Center. In the absence of the Secretary, Ken Ebneter, K9EN, was appointed to keep the minutes of the meeting.

The following members were present:

Steve Schwoegler, WB9RNL	Wisconsin Dells
Duane Grotophorst, KA9HKL	Loganville
Jim Decker, WB9UQT	Baraboo
Ken Ebneter, K9EN	Portage
Jim Romelfanger, K9ZZ	Baraboo
Peter Sweeney, WD9JIB	Reedsburg
Harry Mayland, K9FFT	Baraboo
Art Kleefisch, W9WSS	Baraboo
Ken Johnson, K9DZG	Mazomanie

The minutes of the previous meeting were approved as printed in BSSS.

The Treasurer gave his report, and reported that 22 members have renewed.

Correspondence and announcements:

Donald Harms, KB9ANA, and Brian Schell, KB9ANB, have received their licenses.

Jim Romelfanger, K9ZZ, has received the VE booklets and quizes, and will be ordering more from ARRL.

No old business.

New Business:

There was a brief discussion of Field Day, and it was announced that the program for the June meeting will be "Planning for Field Day".

The buck night drawing ($1.00) was won by Ken Johnson, K9DZG, who arrived just after the drawing was held, and managed to enter and claim his prize in spite of attempts to lock the door until the drawing was over. Next month's prize will therefor again be $1.00.

The meeting was adjourned at 8:58 pm.

Following a brief break, Ken Ebneter, K9EN, presented a program on video signals. The discussion included standard BW & Color TV, High Definition Television, video recorders, DBS systems, and the new super video recorders.

Respectfully submitted,
Ken Ebneter, K9EN, Acting Secretary

YTARC BIRTHDAZE

Ken Ebneter	K9EN	June	8
Harold Reif	KA9YQP	June	18
Harry Mayland	K9FFT	June	24

SENTENCE SERMON

After what I owe to God, nothing should be more dear or more sacred than the love and respect I owe to my country.

--Francois de Thou

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THE WISCONSIN PACKETEER

MBL-331 (continued from page 18)

shows YAPP File Transfer Protocol status and progress data. The new window shows you the name of the file being uploaded, the size of the file in bytes, the STATE of the transfer, the number of bytes transferred and the "Press <ESC> to abort" prompt. During the file transfer, STATE information will change to show you what's happening between your computer and the host PBBS. When the entire file has been transferred, the window will show "TRANSFER COMPLETED OK" and "Returning to Terminal Mode". The window will close and the host PBBS will send you its normal command prompt indicating that it is ready for your next command.

Bob - N9BKJ

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BLUE SMOKE from Kettle Drums

Many of you porbably have been laboring under the common misconception that those little black boxes with the pins sticking out the sides contained some kind of intricate electronic circuitry: Naive souls! They are in fact filled with blue smoke. Blue smoke is a naturally occuring substance, obtained by refining petroleum, old tires, or that stuff that builds up around the edges of your toaster-oven if you don't clean it too often.

It was discovered quite by accident in 1952 in a chemical laboratory in Houston. Blue-smoke refineries have been built near evey major industrial city. Common materials are carefully oxidized under highly controlled conditions to extract the blue smoke from the more common, but useless, black smoke, leaving the waste product, white smoke which is generally released through tall smoke stacks to foul the air.

Purified blue smoke is packed into small black boxes under high pressure, and under proper electrical stimulation, it behaves in quite extraordinary ways. Under incorrect usage, however, the box fails, and all the blue smoke excapes, and the chip no longer functions (so there!). Properly used, blue smoke can make complex logical decisions, remember arbitrary amount of information for long periods of time or power larger machinery.

W9WI BBS> From: W9WI Date:. 17-Apr/0525
Subject: letter TO hams FROM congressman Obey
From: W9WI@W9WI

Kevin WB9YHB provided a copy of the attached letter, which was apparently mailed to all licensed hams in the 7th Congressional District..

SPECIAL ALERT TO HAM RADIO OPERATORS

Dear Friend,

As you may already know, the Federal CommunicationsCommission (FCC) has proposed to reallocate the 220-222 MHz radio frequency band from the amateur service to the land mobile service, adversely affecting thousands of amateur radio operators throughout the country.

The agency is expected to issue their final ruling on this matter in the next few months. I have written to FCC Chairman Dennis Patrick to let him know that I am strongly opposed to the proposal. A copy of my letter is re-printed below.

Sincerely,
David Obey, Your Congressman

Mr. Dennis R. Patrick, Chairman
Federal Communications Commission
1919 M. Street, N.W., Room 814
Washington, DC 20554

Dear Chairman Patrick,

I am writing to you to object in the strongest possible terms to the Federal Communications Commission proposal to reallocate the 220-222 MHz amateur band to the land mobile service.

Access to this frequency band is essential to the thousands of amateur radio operators in Wisconsin who form an indispensable emergency communications network. Relief assistance provided by "ham" operators during times of crisis is legendary in my district where rural isolation and harsh weather are frequently the conditions of life.

Reallocation of the 220-222 MHz band would have a grave impact on public safety and well-being. I urge you not to adopt this proposal.

Sincerely,
David R. Obey, Member of Congress

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